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ABSTRACT

This publication is a product of the knowledge development effort implemented under the Youth Employment and Demonstration Projects Act of 1977. It is the second volume of an assessment of the Job Corps, which found that, overall, the Job Corps experience of training young men and women for employment has been beneficial to society, although there is room for program improvements. This volume of the assessment focuses on the vocational training offered by the Job Corps. The study used the Job Corps! PY 1977 data base to examine the relationship of vocational offerings at different centers to the subsequent labor market experience of male and female trainees. Some of the findings of the study include (1) only one in seven corpsmembers who enter a vocational training cluster ends up completing and being placed in a job in the same cluster: those who do have the highest wages: (2) the overall job placement rate for male program completers (67.5 percent) was much higher than that for female completers (55.6 percent); (3) the average starting wage for males was higher than that for females; (4) for males, construction trades, clerical sales, and industrial production occupations provided the most success for completers, at Teast in the short run: (5) Civilian Conservation Centers had more success than contract centers with male completers; and (6) the four largest centers did relatively poorly in the rankings for male completers. The study has great implications for other types of training programs because of its large data base and the long duration of Job Corps programs. (KC)

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#### YOUTH KNOWLEDGE DEVELOPMENT REPORT 3.3

ASSESSMENTS OF JOB CORPS
PERFORMANCE AND IMPACTS

Volume II

April 1980

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Job Corps has been labelled the "cornerstone" of youth employment and training efforts because it offers, in a residential setting, the most comprehensive, intensive and expensive services of any youth program, because it is targeted to those young persons with severest needs, because in over 15 years of operation it has served more than 600,000 young people, and because it is a program with a track record of proven success.

Job Corps is also a cornerstone of knowledge development efforts for several reasons:

First, Job Corps offers a complete treatment approach with corpsmembers receiving allowances, education, basic life skills training, vocational training, world-of-work experience, health care, residential support, work experience, counseling, recreation and more. Given the intensity of treatment, Job Corps constitutes a test of the most fundamental notion whether it is possible to redirect human lives and to make a difference over the long-term with comprehensive remedial assistance. The vast majority of CETA youth dollars, for instance, go for wages ar \ salaries in work experience rather than for significant human resource development activities, so lifetime changes should not be expected for participants. Because Job Corps is relatively intensive and expensive, the benefits must be significan to justify the costs. Other less intensive programs may pr duce Positive changes, but the marginal impacts cannot be discerned because our social science measurement tools are inexact. For instance, if the tools of measurement for social status changes have a margin of error of 5 percent, then a shortduration activity which produces positive but slight increments may not have measurable effects whereas Job Corps would be expected to produce more readily observable changes substantially exceeding the margins of error in measurement. The authorizing legislation for Job Corps, in fact, mandates benefit-cost analyses to determine whether the investment is justified. Put. in another way. Job Corps is the most comprehensive of human resource investment programs for the disadvantaged. If it does not work, then there must be doubts about less comprehensive efforts.

Second, Job Corps is an excellent social laboratory in exploring ways to aid disadvantaged youth. It offers a complete range of services under standardized criteria in a multitude of settings to a relatively homogeneous, disadvantaged clientele. It is a nationally directed program. Hence, it is easier to try out various mixes of services and delivery approaches in Job Corps than in the decentralized CETA prime sponsor system. The program



and its approaches have stantised after 15 years of operations so that learning curve and startup effects are minimised. There is a comprahensive recordscaping system which provides information which is unavailable elsewhere and the size of the participant cohort permits detailed assessments of impacts.

Third, the Job Corps was the forerunner of many of the approaches now being adopted or considered for youth policies for the 1980s. Its program is self-paced, open-entry, open-exit, with multiple options and tracking of youth through a sequence of activities based upon individual ability. It provides benchmarks for achievement within Job Corps and resumes for subsequent entrance to the labor market. Education is linked to vocational training which is linked to work experience. There are multiple steps so that advanced youth can go as far as college; in other words, there is a self-contained system which can move participants upward as rapidly as possible. The Job Corps experience, therefore, suggests how these features will or can work for ecosomically disadvantaged youth under other CETA programs.

These two volumes on Assessments of the Job Corps Performance and Impacts present a massive array of studies ranging from rigourous impace and benefit-cost evaluations to surveys of nutrition in centers In other words, this is a compendium of most of what has been learned about Job Corps in the 1970s but particularly since the youth initiatives were launched in 1977.

There are several major findings:

First, Job Corps apparently produces benefits to society in terms of increased earnings of participants, lowered transfer payments, and reduced crime which exceed the costs. Human resource investments have a measurable impact and, apparently, a positive rate of return.

Second, the experience suggests that older youth who are more mature stay longer and tend to make significant employment and earnings gains subsequently while younger participants benefit from socialization and greater maturity.

Third, the self-paced individualized approach of Job Corps seems to work in education and vocational training. It is far from a perfect mechanism, but there is apparently much more choice and much less slippage in the realization of and progression through opportunities within Job Corps than outside.

Fourth, even though the characteristics of Job Corps partice.
ipants have not changed significantly since the 1960s and continue to be extremely disadvantaged, there is a vast range in ability and motivation. A sorting occurs within Job Corps in terms of who initially applies, who stays and who advances.
Where full opportunities are available for everyone, and where extra efforts are made for those with greatest difficulties, this sorting is helpful to the disadvantaged youth offering youth with commitment a chance to prove themselves.

Fifth, there is a delicate balance in Job Corps. The more elements in the treatment package, the more likely that the totality will impact on needs. For instance, health problems are less likely to impede progress of Corpsmembers than of participants of programs that do not offer comprehensive health care. However, with multiple components, it is also harder to make all the pieces function harmoniously. Job Corps experience suggests that it may take as long as five years of operation for centers to stabilize, i.e., that there is a long learning curve.

The Job Corps experience summarized in this volume is not all positive; there is much in the program which needs improvement. But the evidence is hopeful, suggesting that comprehensive services can help the most disadvantaged youth, and that the directions we are moving in youth policies for the 1980s make sense.

These volumes are products for the "knowledge development" effort implemented under the mandate of the Youth Employment and Demonstration Projects Act of 1977. The knowledge development effort consists of hundreds of separate research, evaluation and demonstration activities which will result in literally thousands of written products. The activities have been structured from the outset so that each is self-standing but also interrelated with a host of other activities. The framework is presented in A Knowledge Development Plan for the Youth Employment and Demonstration Projects Act of 1977, A Knowledge Development Plan for the Youth Initiatives Fiscal 1979 and Completing the Youth Agenda: A Plan for Knowledge Development, Dissemination and Application in Fiscal 1980.

Information is available or will be coming available from the various knowledge development activities to help resolve an almost limitless array of issues, but answers to policy questions will usually require integration and synthesis from a number of separate products, which, in-turn, will depend on knowledge and availability of these products. A major shortcoming of past research, evaluation and demonstration activity has been the failure to organize and disseminate the products adequately to assure the full exploitation of the findings. The magnitude and structure of the youth knowledge development effort puts a premium on organization and dissemination.

As part of its knowledge development mandate, therefore, the Office of Youth Programs of the Department of Labor will organize, publish and disseminate the written products of all major research, evaluation and demonstration activities supported directly by or mounted in conjunction with the knowledge development effort. Some of the same products may also be published and disseminated through other channels, but they will be included in the structured series of Youth Knowledge Development Reports in order to facilitate access and integration.

The Youth Knowledge Development Reports, of which this is one, are divided into twelve broad categories:

- 1. Knowledge Development Framework: The products in this category are concerned with the structure of knowledge development activities, the assessment methodologies which are employed, validation of measurement instruments, the translation of knowledge into policy, and the strategy for disseminating findings.
- 2. Research on Youth Employment and Employability Development: The products in this category represent analysis of existing data, presentation of findings from new data sources, special studies on dimensions of youth labor market problems and policy analyses.
- 3. Program Evaluations: The products in this category include impact, process and benefit-cost evaluations of youth programs including the Summer Youth Employment Program, Job Corps, the Young Adult Conservation Corps, Youth Employment and Training Programs, Youth Community Conservation and Improvement Projects, and the Targeted Jobs Tax Credit.
- 4. Service and Participant Mix: The evaluations and demonstrations summarized in this category concern the matching of different types of youth with different service combinations. This involves experiments with work vs. work plus remediation vs. straight remediation as treatment options. It also includes attempts to mix disadvantaged and more affluent participants, as well as youth with older workers.
- 5. Education and Training Approaches: The products in this category present the findings of structured experiments to test the impact and effectiveness of various education and vocational training approaches including specific education methodologies for the disadvantaged, alternative education approaches and advanced career training.

- 6. Pre-Employment and Transition Services: The products in this category present the findings of structured experiments to test the impact and effectiveness of school-to-work transition activities, vocational exploration, job-search assistance and other efforts to better prepare youth for labor market success.
- 7. Youth Work Experience: The products in this category address the organization of work activities, their output, productive roles for youth and the impacts of various employment approaches.
- 8. Implementation Issues: This category includes cross-cutting analyses of the practical lessons concerning "how-to-do-it." Issues such as learning curves, replication processes and programmatic "batting averages" will be addressed under this category, as well as the comparative advantages of alternative delivery agents.
- 9. Design and Organizational Alternatives: The products in this category represent assessments of demonstrations of alternative program and delivery arrangements such as consolidation, year-round preparation for summer programming, the use of incentives and multi-year tracking of individuals.
- 10. Special Needs Groups: The products in this category present findings on the special problems of and adaptations needed for significant segments including minorities, young mothers, troubled youth, Indochinese refugees and the handicapped.
- present the findings of those activities designed to explore new approaches. The subjects covered include the Youth Incentive Entitlement Pilot Projects, private sector initiatives, the national youth service experiment, and energy initiatives in weatherization, low-head hydroelectric dam restoration, windpower and the like.
- 12. Institutional Linkages: The products in this category will include studies of institutional arrangements and linkages as well as assessments of demonstration activities to encourage such linkages with education, volunteer groups, drug abuse agencies and the like.

In each of these knowledge development categories, there will be a range of discrete demonstration, research and evaluation activities, focused on different policy, program and analytical issues. For instance, all experimental demonstration projects have both process and impact evaluations, frequently undertaken by different evaluation agents. Findings will be published as they become available so that there will usually be a series

of reports as evidence accumulates. To organize these products, each publication is classified in one of the twelve broad knowledge development categories, described in terms of the more specific issue, activity or cluster of activities to which it is addressed, with an identifier of the product and what it represents relative to other products in the demonstration. Hence, the multiple products under a knowledge development activity are closely interrelated and the activities in each broad cluster have significant interconnections.

The key elements in these two volumes are the 6-month followup study of Job Corps enrollees and a benefit-cost analysis
based on these findings. The uncertainty is whether the
positive short-term effects will continue or will be eroded
over time. The Lasting Impacts of Job Corps Participation,
also in the "program evaluations" category provides the results of the followup of Corpsmembers one year
survey in this volume. It provides encouraging evidence
that the everall gains do not erode.

The Job Corps approach might be contrasted with the work experience approach undertaken under the supported work demonstration with a similar client group and evaluated by parallel methodologies. Enhanced Work Experience - The Supported Work Approach for Youth in the "youth work experience" category provided an interesting contrast to the findings in these volumes. Likewise, Alternative Education Models--Preliminary Findings of the Job Corps Educational Improvement Effort in the "education and training approaches" category is related to the studies of education in Job Corps contained in these volumes. Employment and Training for Indochinese Youth in the "special needs group" category indicates the role of Job Corps in serving this significant segment of the disadvantaged youth population.

ROBERT TAGGART
Administrator
Office of Youth Programs

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JOB CORPS VOCATIONAL OFFERINGS:

AN ANALYSIS OF PERFORMANCE

INDICATORS BY TRAINING AREA AND

CENTER PERFORMANCE

FEBRUARY 1979

Joseph A. Hines Brian Linder

OFFICE OF YOUTH PROGRAMS
REPORT NUMBER 11

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One of the major components of the Job Corps program is vocational training. Corpsmembers may choose training in a wide variety of occupations -- from office worker to cook to cement mason to inhalation therapist. Corpsmembers overwhelmingly gave positive ratings to the training they receive. The high placement rates of corpsmembers must, in part, be attributed to the vocational training they receive as part of the comprehensive Job Corps program.

Over the nearly 15 years of its existence, the Job Corps has done an unparalleled job in preparing young men and women to be productive, self-sufficient citizens. To maintain this level of achievement, Job Corps must continually access its training programs to insure that corpsmembers actively receive skills that are salable in today's labor market. New training programs are being developed in new high demand vocational areas—solar energy technology, ship building trades and computer technology, to name a few. But the Job Corps must also continually examine its existing training programs to upgrade training techniques, keep pace with changes in occupations, and eliminate training in occupations for which there is low demand.

To aid in this examination, Job Corps maintains a comprehensive data base regarding the placement of enrollees. The study which follows makes use of the FY 1977 data base to take a look at the relationship of vocational offerings at different centers to the subsequent labor market experience of male and female trainees. Although the study examines an enormous amount of data it only begins to make full use of the Job Corps data base.

The study has importance not only because of the information it provides which can be used to improve Job Corps performance, but because of the implications for other vocational training efforts for youth. Most vocational training programs concentrate on the same general skill clusters and all seek to adjust these to supply and demand. Few other programs, however, have such a rich data system to compare outcomes to inputs. The experience of corpsmembers in various training clusters is probably reflective of the experiences

of young trainees in other programs. Certainly, the analysis can help to identify the best and worst training areas.

The following points highlight some of the findings of the study.

- Only one in seven corpsmembers who enters vocational training cluster ends up completing and being placed upon termination in a job in the same cluster; those who do have by far the highest wages. This fact reflects the high dropout rates experienced in all youth programs, the subsequent alternatives to work such as education or child-rearing, the difficulties of finding job-training markets for young people, and their frequent career goals changes. This would suggest that training must be considered in terms of the multiplicity of options it provides as well as its impacts on overall rather than specific skills.
- The overall job placement rate for male program completers (67.5 percent) was much higher than that for female completers (55.6). This was true as well for each of the vocational clusters except for the forestry, farming, and gardening cluster. However, female completers who were placed tended to have a higher rate of success in getting jobs in the vocation for which they were trained than did their male completers.
- The average starting hourly wage for male completers who were placed in jobs for which they had been trained was \$3.57 as compared to \$2.92 for women. Interestingly, men tended to have much higher job training match wages than women in what could be considered traditionally female occupational clusters. For example, the average hourly wage for males trained and placed in cleri al/sales occupation was \$3.99

compared to \$2.98 for women. Further, the average wage for males in health occupations was \$2.81 compared to \$2.57 for females. Conversely, women trained in some traditionally male occupations had higher placement wages than their male counterparts. This is true for construction trades (\$4.81) and forestry, farming and gardening. However, both men and women tend to be trained in occupations "traditional" for their sex.

- For males, construction trades, clerical sales, and industrial production occupations provided the most success for completers, at least in the short run.
- In the ranking system used in the study, Civilian Conservation Centers tended to rank higher than contract centers in terms of the success of male completers. This can be ascribed to the highly successful union construction training which was at the time offered primarily to CCC's.
- The four largest centers did relatively poorly in the rankings for male completers.

The summary findings of the study are interesting to the general analyst. However, the detailed occupation by occupation listings by center and sex in the appendix should also be of value to Job Corps managers at the national, regional, and center levels who must make decisions about future Job Corps vocational training.

ROBERT TAGGART
Administrator
Office of Youth Programs

Job Corps is probably the most studied of all manpower programs.

One reason for this is the large computerized data base maintained by the Job Corps, National Office in support of Job Corps operations.

Because this data base is readily available to the researcher, no other manpower program has such a wealth of information so close at hand.

At the same time, however, there are large gaps in the body of knowledge about the program. Studies done ten years ago in 1968 cannot be considered to be accurate today. The Job Corps program has changed drastically since the days of the Great Society, and it has largely been out of the public eye for the past six or seven years. With the Carter Administration's mandate to double the size and improve the quality of Job Corps, it is apparent that interest in the program by the research community will increase.

This study is not intended to be the last word on the subject.

Rather, it is meant to be the first in what is planned to be an annual series of studies on the vocational offerings of Job Corps. It does not include all the many variables affecting the success of graduates of the many types of vocational training offered by the program. Instead, it is a basis for more comorehensive research.

Many factors affect the retention and subsequent placement of Job Corps graduates and their starting wages. The corpsmembers' basic skills and capabilities, their ages and sex, the center's environment; the

instructors' capabilities, the specific occupations, the general economic condition of the area to which the corpsmembers return, the specific market for the corpsmembers' skills, and the dedication—and skill of placement staff, all play a part. This study does not attempt to assess these factors. Rather, the study attempts to use Job Corps' internal vocational reporting system to describe what is (or rather was) in FY 1977.

Certain caveats are in order. First, no implication is intended about the quality of training at any given center. As noted, placement of Job Corps graduates is influenced by a variety of factors, of which center performance is only one. No recent study has been done to weight or evaluate such factors. In addition, it is a truism in Job Corps that nothing remains constant about the program but its basic mission. Center environments change; programs are added or dropped; economic conditions vary; the geographic areas providing input to a given center shift. Although the relative effectiveness of various occupational training remains basically constant from year to year, data can pinpoint issues which need further attention even though some corrective actions may already have occurred.

## B. ORGANIZATION OF THE STUDY

This study focuses on the following areas:

1. The success of male and female graduates of each vocational offering



- 2. The success of each center s graduates in specific vocations
- Performance of contract centers versus Civilian Conservation

  Centers for males by vocational cluster

The basic mode of comparison is a set of indicators, each of which is explained below.

### % Cat I: Percentage of Category I Terminees.

A Gategory I terminee is defined as a corpsmember who has been certified by the center director as completing a course of study. A Category II termination is a corpsmember who has been in the program more than 90 days, but who did not complete the prescribed course of study for a vocation. A Category III termination is a corpsmember who terminated from the program after being in Job Corps 90 days or less. The ratio of Category I to all terminees from the vocational cluster is equivalent to a completion rate. This may indicate the attractiveness of the offering, the types of students who are attracted, the ease of completion, or other factors. However, since Category I terminees have substantially greater subsequent employment and earnings than Category II and III terminees, the completion rate is, on the average, a success indicator.

# Cat I: Number of Category I terminees for a particular vocational cluster-subcluster/center, etc.

#Placed: Number of Category & terminees placed in a job, whether or not the job was training related.

\*Placed: The percent of Category I terminees placed in a job,
i.e., #placed : # Cat I x 100. This indicator shows
the success of Category I terminees from a cluster/vocation
in obtaining employment after graduation. Such factors as
local labor market conditions, the age and sex of the
graduate, the quality of service provided by placement
agencies have an influence on the indicator.

#JTM: The number of Category I terminees who were placed in the same type of job for which they were trained (job training match).

It is important to note that when this indicator is shown for a vocational cluster, i.e., a group of related occupations, a job training match is reported if the corpsmember is placed in any subcluster (specific occupation) within the group. When shown for a subcluster, the job training match will be for only that subcluster. Therefore, the sum of the #JTM for all the subclusters in a cluster may well be less than the #JTM shown for the cluster.

\*JTM: Category I terminees placed with a job training match as a percentage of Category I terminees placed, i.e., #JTM:
# placed x 100. The same relationship of cluster to

subcluster applies here as it did under #JTM. This indicator shows the success of graduates in obtaining training related jobs. Because of the cost of vocational training and other such factors, a high %JTM is desirable. A low %JTM may indicate poor training, or training mismatched to labor market demands.

## P/JTM Rate: (Placement/JTM Rate)

The ratio of Category I job training matches to Category I terminations, i.e., #JTM: #CAT I or, expressed differently, % placed (expressed as a ratio) x %JTM (expressed as a ratio). This indicator shows the relative success of Category I terminees in getting training related jobs. Because one of the main aims of Job Corps vocational training is to prepare young people to get a good job, a high P/JTM rate can be considered a success indicator.

JTM Wage: The average starting hourly wage for those Category, I terminees who had a job training match. Within a cluster, variations in this indicator will be most dependent on local labor market wages and whether the job is union or not. For comparisons among clusters, the JTM wage shows the relative quality of the jobs in monetary terms.

Collectively, these items are referred to as "the indicators." Note that

the indicator "% Cat I" is only used at the cluster level, and thus does not appear in the vocational cluster/subcluster according to center listings.

In addition to the indicators displayed above, a limited system of rankings is used. This ranking system must be viewed with caution. As noted earlier, no evaluation of individual centers is intended nor should any be inferred. The rankings are intended to show how the relative placement success of a center's or occupation's graduates is influenced by a variety of factors such as labor market conditions and the placement agencies used. Basically, the rankings are composed of four equally weighted factors: % Cat I, % Placed, % JTM, and JTM Wage. The P/JTM rate is not used, because it is derived from two other indicators, % Placed and % JTM, and is thus reflected indirectly in the rankings.

#### C. THE REPORTING SYSTEM

The primary source of data for this study is the Job Corps Placement System. Throughout this report, it will be emphasized that the data was reported in FY 1977. While this is true, a further explanation is necessary. Until FY-1978, placement agencies had an unlimited amount of time to report placements. (Placement agencies now have one year to report placements.) Thus, the FY 1977 report shows a few placements for centers which have been closed for some time, e.g., Poland Springs and Lydick Lake. Therefore, some of the activity reported in FY 1977 probably occurred in FY 1976 or earlier. However, the totals for terminees of various types are very close to those known to be true for FY 1977.

The vocational analysis computer printouts for FY 1977 separately identify union programs. Union programs are prefixed in the reporting system by "2" in the cluster number (e.g., 27, Union Construction Trades; 07, Nonunion Construction Trades). However, this designation was not implemented until mid-FY 1977. Therefore, union data for the first half of the fiscal year are reported under the nonunion cluster code. Because the discreet union data are incomplete, they have been combined for the purposes of this study with "nonunion" data (which include some union data), so that all data for an occupation are displayed together. Of course, centers with union occupational training are monitored by Job Corps staff.

Some centers operate both union and nonunion components for the same occupation (e.g., carpenter, construction) due to minimum—age—requirements for union programs and other factors. Therefore, union data cannot be "backed out" of the nonunion data based on identifying which centers have union programs in specific occupations. This is frustrating to the researcher, because it is obvious that, although union programs are relatively expensive, they have a tremendous effect on the placement of Job Corps graduates in good paying jobs.

An examination of preliminary data for FY 1978 indicates that the separate reporting of union and nonunion data is occurring as planned. Hopefully a study of FY 1978 data will be able to make use of this data. In addition, the FY 1978 study would reflect less of a "pipeline" effect because of the one-year time limit on reporting placements and increased

monitoring to insure that data are input to the system promptly. A further complication to the reporting of union data is that graduates of the two union extension centers, Santa Rosa and Minnesota, are generally reported by the various regular centers which provided the corpsmembers to the extension centers.

One final word is needed about the reporting system. In the section which displays vocational clusters/subclusters by center, the center name is preceded by a three-digit center designator. Some centers, e.g., San Jose, have more than one center designator code to identify residential, nonresidential, and other components for reporting purposes. In those instances where centers are prefixed by a center designator code, it is possible that center will be listed more than once. In those instances where no center designator code is listed, it is assumed that the various center components have been combined.

#### D. JOB CORPS PLACEMENT WAGES

The following table shows the average wages for Job Corps

placements for all corpsmembers by cluster and termination category.

#### AVERAGE HOURLY WAGES

| . Cluster   | All<br>Place-<br>ments   | Cat III<br>Place-<br>ments   |   | Cat II<br>Place-<br>ments  | Cat I<br>Place-<br>ments   | Cat I<br>Place-<br>ments<br>W/JTM  |  |
|---|--|--|---|--|--|--|--|
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | \$2.70<br>2.81<br>2.55<br>2.52<br>2.49<br>2.88<br>3.52<br>2.95<br>3.03<br>2.82<br>2.58<br>3.02 | \$2.54<br>2.57<br>2.42<br>2.41<br>2.35<br>2.59<br>2.96<br>2.81<br>2.82<br>2.68<br>2.47<br>2.89 |   | \$2.61<br>2.60<br>2.52<br>2.47<br>2.38<br>2.75<br>3.04<br>2.99<br>2.89<br>2.71<br>2.54<br>3.03 | \$3.03<br>3.09<br>2.72<br>2.77<br>2.78<br>3.11<br>4.00<br>2.99<br>3.76<br>3.25<br>2.61<br>3.32 | \$3.19<br>3.21<br>2.81<br>3.31<br>2.89<br>4.02<br>2.71<br>3.48<br>2.16<br>2.59 |  |
| * (Unas   | ssigned)   |  | , |  |  | •  |  |

In general, the better the termination category, the higher the placement wage. Of particular note is the difference in placement wage in Cluster 7, Construction Trades, between Category II (\$3.04) and Category I (\$4.00). One explanation for this stems from the heavy involvement of unions in this cluster. Unions which provide apprenticeships to Job Corpsmembers do so generally only to Category I terminees of a union subcluster. These apprenticeships usually have a higher placement wage than other Job Corps occupations.

Also worthy of note-are the five clusters, No. 6 - Automobile and Machine Repair; No. 8 - Electrical Appliance Repair; No. 9 - Industrial Production; No. 10 - Transportation; and No. 11 - Health Occupations, for which the JTM wage for Category I terminees is lower than the overall placement wage for all Category I terminees from the cluster. This would suggest that training in these clusters provides entry for completers into other job areas with more attractive earnings. This would certainly be expected to influence the percentage of placements with a training match.

# E. AN ANALYSIS OF VOCATIONAL OFFERINGS IN JOB CORPS

This section of the study analyses the vocational subclusters for which graduates were reported in FY 1977. A discussion of center variations within vocational clusters is presented in section G. A complete listing of indicators by center, by sex, and by cluster and subcluster is presented in the appendix.

A question that is often debated by those associated with Job Corps is: What kinds of jobs should we be training corpsmembers for? The answer probably is: It depends. Corpsmembers are not a homogeneous group by any means, coming from different parts of the country, with different aptitudes and interests. For some corpsmembers, entrance into the most "entry level" of entry level jobs is an accomplishment. For other corpsmembers, such minimum skill level training is far below their

capabilities. It is almost intuitively obvious that no one type of occupation is best for all, or even most, corpsmembers. Indeed, for many corpsmembers, vocational training as an end in itself may not be the best course at all. For such, the college program was developed. However, even college-bound corpsmembers benefit from the skills and disciplines gained from vocational training.

Even though data for union programs provided through the placement system are incomplete, it is apparent that the union programs are more successful in placement effectiveness than nonunion programs, though at a much greater monetary cost.

On the downside, a few occupations are cause for concern. Baker and Diesel Mechanic, for example, are occupations which graduates had difficulty getting into; even though these were trades for which they were trained, Service Station Attendants, Nurse's Assistants, and Orderlies are occupations which are also poor performers.

In the analysis that follows, an attempt is made to compare the relative successes of male and female corpsmembers. It is obvious from the data that males fare far better than their female counterparts. There are, no doubt, complex reasons for this. At the very least, the Job Corps centers which are predominantly female continue to offer "traditional" female occupations. It will remain for future analysts to examine how the situation is affected by coeducation and the extent to which female enrollees select training in nontraditional occupations.

The following tables will show a summary of each cluster for male graduates, female graduates, and all graduates. Also presented is a table which ranks clusters.

Table A-1 shows the cluster names and numbers of the Job Corps Vocational clusters.

## VOCATIONAL CLUSTER NAMES AND NUMBERS

TABLE A-T

| Cluster<br>Number | Cluster Name                         |
|-------------------|--------------------------------------|
|                   | Sub-professional                     |
| 2                 | Clerical and Sales                   |
| 3                 | ° Service Occupations                |
| ., 4              | Forestry, Farming, and Gardening     |
| · 5               | Food Service                         |
| 6                 | Automotive and Machine Repair        |
| 7 -               | Construction Trades                  |
| 8                 | Electrical/Appliance Repair          |
| 9                 | Industrial Production                |
| 10                | Transportation                       |
| 11                | Health Occupations                   |
| . 12              | Miscellaneous Occupations/Unassigned |

For purposes of this study, the few Category I terminations reported from Cluster 12 are assumed to be due to reporting error and have been ignored.

Tables A-2, A-3, A-4 display the indicators for each vocational cluster for male graduates, female graduates and all graduates, respectively.

# -MALÉ

| Clu-  | %      | # -      | #      | .%              | #       | %           | P/JTM: | JTM .  |
|-------|--------|----------|--------|-----------------|---------|-------------|--------|--------|
| ster. | _Cat I | Cat I *  | Placed | Placed          | JTM     | JTM         | Rate   | Wage   |
| 1     | 62.5   | 80       | 43 .   | 53.8            | 18      | 41.9        | .225   | 3.35   |
| 2.    | 38.0   | 317      | 214    | 67.5            | -149    | 69.6        | 470    | 3.99   |
| 2.    | 31.9   | 655      | 413    | 63.1            | 211     | 51.1        | .322   | 2.84   |
| 4     | 49.3   | 184      | . 132  | 71.7.           | .79,    | _59.9       | 429.   | 3.28   |
| 5     | 40.0   | 990      | 634    | 64.0            | 384     | 60.6        | .388   | -      |
| 6     | 29.1   | 1,288    | 828    | 64.3            | 404     | 48.8        | .314   | 2.88   |
| -7:   | 37-1   | -3,018   | 2,124  | <del>70-2</del> | -1-401- | -66.0       | -464   | - 4:01 |
| 8     | 39.3   | 161 -    |        | 68.9            | 37      | 33.3        | .230   | 2.71   |
| 9     | 41.8   | 1.93 و 1 | 832    | 69.7            | 540     | 64.9        | .453   | 3.52   |
| 10    | 28.6   | 64       | 45     | 70.Š            | 21      | 46.7        | .328   | 3.38   |
| 1]    | 42.4   | 103      | 63     | 61.2            | 45 .    | 71.4        | .437   | 2.81   |
| OTAL  | *      |          |        | · <del>-</del>  |         | <del></del> | *      | •      |
| ALÈ   | 36.5%  |          | 5,453  | 67.5%           | 3,290   | 60.3%       | .407   | 3.57   |

<sup>\*</sup>Excludes Cluster 12.

TABLE A-3

# FEMALE .

| Clu-'<br>ster | %<br>Cat I    | . # Cat I  | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage  |
|---------------|---------------|------------|-------------|-------------|----------|----------|---------------|--------------|
| . 1           | 29.1          | 65         | 27          | 41.5        | 10       | 37.0     | .154.         | 2.91 -       |
| 2             | 34.7          | 1,320      | 738 `       | 55.9        | 499      | 67.6     | .378          | 2.98         |
| . 3           | 37.4          | · 77       | 41          | 53.2        | 18       | 43.9     | . 234         | 2.47         |
| 4             | 56.1          | <b>°32</b> | 24          | 75.0        | 14       | 58.0     | .438          | 3.45         |
| <b>√</b> 5    | 33.5          | 251        | 128         | 51.0        | 87       | 68.0     | .347          | <b>→</b> ,%  |
| 6             | 27.6          | 32         | 14          | 43.8        | 5        | 35.7     | .156          | 3.67         |
| 7             | 24.4          | 69         | - 44        | 63.8        | 26       | 59.1     | .377          | 4.81^        |
| 8             | 20.8          | 5          | 2           | 40.0        | -        | -        | -             |              |
| 9             | 39.2          | 227        | 122         | 53.7        | 62       | 59.8     | .273          | 3.17         |
| 10            | 40.8          | ♦ 29:      | 17          | 58.6        | 1.0      | 53.8     | .345          | 2.69         |
| 11            | <b>42.7</b> , | -1,159     | 658         | 56.8        | 453      | 68.8     | . 391         | 2.57         |
| TOTAL         |               |            | <del></del> | • • •       |          |          |               | <del> </del> |
| FEMALE        | 37.3%*        | 3,286      | 1,828       | 55.6%       | 1,194    | 65.3%    | .363          | 2.92         |

<sup>\*</sup>Excludes Cluster 12.

TÔTÁI

| Clu-<br>ster | Čat I  | # Cat Î     | Placed.         | Placed            | JTM,  | 3<br>JTM          | P/JTM<br>Rate | JTM<br>Wage | *          |
|--------------|--------|-------------|-----------------|-------------------|-------|-------------------|---------------|-------------|------------|
| 4            | 41.3   | 145         | 70:             | 48.3              | 28    | 40.0              | .193          | 3.19        |            |
| 2            | -35:3- | 1-637       | 952             | 58 <del>.</del> 2 | ****  | =68:1 <sup></sup> | 396           | 3.21        | _          |
| 3            | 32.4   | <b>7.32</b> | 434             | 62.0              | 229   | 50.4              | 7313          | 2.81        |            |
| 4            | 50.2   | 216         | 156             | 72.2              | 93    | 59.6              | .431          | 3.3.1       |            |
| 5            | 38.5   | 1,241       | 762             | 61.4              | 471   | 61.8              | .380          | ٠,          |            |
| - 6          | 29.0   | 1,320       | 842             | 63.8              | 409   | 48.6              | .310          | 2.89        |            |
| <b>7</b> /   | 36.7   | 3,087       | 2,168           | 70.2              | 1,427 | 65.8              | ~ .462        | 4.02        |            |
| 8            | 38.2   | 166.        | 111             | . 68.9            | 37    | 33.3              | .230          | 2.71        |            |
| 9            | 41.4   | 1,420       | 954             | .67.2             | 602   | 63.1              | .424          | 3.48        |            |
| 10 5         | 31.5   | 93          | _6 <b>2</b> * ` | 66.7              | 31    | 50.0              | .333          | 3.16        |            |
| 11.          | 42.7   | 1,262       | 721             | 57.1              | 498   | 69.1 <sup>-</sup> | .395          | 2.59        | <b>ć</b> ( |
| TOTAL        | 36.7%* | 11,364      | 7,281           | 64.1%             | 4,480 | 61.5%             | .394          | 3.40        | ¥          |

<sup>\*</sup>Excludes Cluster 12

Table A-5 shows the rankings for each cluster. These rankings were devised by averaging the rankings for each cluster of four variables: % Cat I, % Placed, % JTM, and JTM Wage. Each variable received an equal weight. Cluster 5 was ranked on the first three variables only, as JTM wage was omitted.

TABLE A-5
RANKING OF VOCATIONAL CLUSTERS

| 'Cluster<br>Number | Cluster Name                     | Male<br>Rank | Female<br>- Rank: | Total<br>Rank |
|--------------------|----------------------------------|--------------|-------------------|---------------|
| 1.                 | Sub-professional                 | 10           | . 10              | 9             |
| · ž                | Clerical and Sales               | 4            | 5 ,               | 4             |
| 3                  | Service Occupations              | 11           | 8                 | 10.           |
| 4                  | Forestry, Farming, and Gardening | · 1          | 1.                | ٦٠            |
| 5                  | Food Service                     | 6            | 7                 | 6             |
| <u> ^6</u>         | Automotive and Machine Repair    | . 8 -        | 9                 | 11            |
| 7                  | Construction Trades              | 1.           | 3 .               | 2             |
| ,<br>8             | Electrical/Appliance Repair      | 8            | 11                | 7 /           |
| ğ.                 | Industrial Production            | 1            | 6                 | 2             |
| 10                 | Transportation                   | 7            | 4 ·               | 7             |
| iĭ                 | Health Occupations               | 5            | -2                | • 4           |

The 145 completers from Cluster 01 (80 men and 65 women) represented 1.3% of all Category I terminees reported in FY 1977. The 145 completers were 41.3% of all terminations from the cluster during FY 1977.

TABLE 01-1
01 - SUBPROFESSIONAL

|                                 | ©#<br>Cat I   | #<br>Placed | %<br>Placed    | # °          | JTM            | P/JTM<br>Rate | JTM<br>Wage                             |       |
|---------------------------------|---------------|-------------|----------------|--------------|----------------|---------------|---|-------|
| TOTAL                           | , ,           |             |                |              |                |               | • | • • • |
| All Clusters Ol                 | 11,364<br>145 | 7,281<br>70 | 64.1%<br>48.3% | 4,480<br>28  | 61.5%<br>40.0% | -394<br>.193  | \$3.40<br>3.19                          |       |
| All Clusters                    | 1.3%          | 1.0%        | -15.8%         | 0.7%         | -21.5%         | 201           | 21                                      | •     |
| MALE                            |               | •           |                | ·            | 1              | ,             | •                                       |       |
| All Clusters<br>01<br>01 Versus | 8,078<br>80   | 5,453<br>43 | 53.8%          | 3,290<br>`18 | 60.3%<br>41.9% | .407<br>.225  | \$3.57<br>3.35                          | ٠,    |
| All Clusters                    | 1.0%          | 0.8%        | -13.7%         | 0.6%         | -18.4%         | 182           | 22                                      |       |
| FEMALE                          | •             |             |                |              |                |               | •                                       | ٠, .  |
| All Clusters 01 01 Versus       | 3,286<br>65   | 1,828 · 27  | 55.6%<br>41.5% | 1,194<br>10  | 65.3%<br>37.0% | .363<br>.154  | \$2.92<br>2.91                          | :     |
| All Clusters                    | 2.0%          | 1.5%        | -15.1%         | 0.8%         | -28.3%         | 209           | -0.01                                   |       |

Thus, while the % placed, % JTM, and P/JTM rate indicators are either the lowest or second lowest of all clusters, for men, women and combined, the JTM wage is only slightly lower than average, and the \$2.91 wage for women is very close to the \$2.92 average for all female Category I terminees.

pations, this analysis will focus on two: draftsman and cosmetologist. Table 01-2 shows the indicators for subcluster 01-A draftsman.

TABLE 01-2 01-A, DRAFTSMAN

|         | #         | #      | %      | #   | %     | P/JTM | JTM    |
|---------|-----------|--------|--------|-----|-------|-------|--------|
|         | Cat I     | Placed | Placed | JTM | JTM   | Rate  | Wage   |
| Males   | <u>22</u> | 10     | 45.5%  | 5 3 | 50.0% | .227  | \$3.50 |
| Females | 46        | 16     | 34.8%  |     | 18.8% | .065  | \$2.91 |
| TOTAL   | -68       | 26     | 38.2%  | 8,  | 30.8% | .117  | \$3.28 |

Thus, with the exception of JTM wage, the indicators for this subcluster are far below the Job Corps average.

Table 01-3 shows the indicators for subcluster 01-C, Cosmetologist.

TABLE 01-3
01-C, COSMETOLOGIST

|                            | # Cat I | #<br>Placed | %.<br>Placed   | JTM | %<br>JTM       | P/JTM<br>Rate | JTM<br>Wage      |
|----------------------------|---------|-------------|----------------|-----|----------------|---------------|------------------|
| 01-C, Male<br>01-C, Female | 4<br>17 | 3<br>7 ,    | 75.0%<br>41.2% | 1 2 | 33.0%<br>28.6% | .250<br>.118  | \$3.50<br>\$2.40 |
| 01-C, TOTAL                | 21      | 10          | 47.6%          | , 3 | 30.0%          | .143          | \$2.76           |

As with 01-A, this subcluster has very poor indicators.

#### CLUSTER 02/22 CLERICAL/SALES

The 1,637 Category I terminees from the cluster represented 14.4% of all Category I terminations reported during FY 1977. The 317 male category terminees were 3.9% of all male completers reported during the year. The 1,320 female completers were 40% of all female completers reported during the year. This cluster produced the most Category I female terminees of any single cluster.

Table 2-1 displays the indicators for the cluster as compared to those for all other clusters and the total for all clusters.

|     | <u> </u>                   |        | TABL        | E 2-1       |       |          |                 | *,          |
|-----|----------------------------|--------|-------------|-------------|-------|----------|-----------------|-------------|
|     |                            | Cat    | #<br>Placed | %<br>Placed | JTM³  | %<br>JTM | P/JTM ·<br>Rate | JTM<br>Wage |
|     | Cluster 02/22<br>All Other | 1,637  | . 952       | . 58.2%     | 648 ~ | 68.1%    | .396            | 3.21        |
|     | Clusters                   | 9,727  | 6,329       | 65.1%       | 3,832 | 61.4%    | .394            | 3.43        |
| - 1 | All Clusters               | 11,364 | 7,281       | 64.1%       | 4,480 | 61.5%    | .394            | 3.40        |

Thus, the relatively higher % placed and lower % JTM for the cluster net out to a P/JTM rate that is nearly equal to that for all other clusters. The JTM wage, however, is \$0.22 lower than the average for all other clusters.

Table 2-2 displays the indicators for Cluster 2 male completers, for male completers from all other clusters, and for all male completers.

TARI F 2-2

|  | #<br>Cat<br>I | Placed | Placed \ | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|--|---------------|--------|----------|----------|----------|---------------|-------------|
| Cluster 2 (M)<br>All Other<br>Clusters (M) | 317           | 214    | 67.5%    | 149      | 69.6%    | .470          | 3.99        |
|  | 7,761         | 5,239  | 67.5%    | 3,141    | 60.0%    | 405           | 3,55        |
| All Clusters                               | 8,078         | 5,453  | 67.5%    | 3,290    | 60.3%    | .407          | 3.57        |

It is interesting to note that for men, Cluster 2 has the highest P/JTM rate of all clusters and that a JTM wage of \$3.99 an hour is only \$.03 less than that of Cluster 7 (construction trades), the cluster with the highest wage.

Table 2-3 displays the indicators for Cluster 2 female completers, for female completers from all other clusters, and for all female completers.

TABLE 2-3

|                           |               | . IABL      | <u>.c 2-3</u> |          |        |               |             |
|---------------------------|---------------|-------------|---------------|----------|--------|---------------|-------------|
|                           | #<br>Cat<br>I | #<br>Placed | %<br>Placed   | #<br>JTM | JTM    | P/JTM<br>Rate | JTM<br>Wage |
| Cluster 2 (F)             | 1,320         | 738         | 55.9%         | 499 .    | 67.6%  | . <b>378</b>  | 2.98        |
| All Other<br>Clusters (F) | 1,966         | 1,090       | 55,4%         | 695      | 63.8%, | .354          | 2.88        |
| All Clusters              | 3,286         | 1,828       | 55.6%         | 1,194    | 65.3%  | 363           | 2.92.       |

Thus, Cluster 2 female completers have indicators which are about the norm for female completers. However, referring back to table 2-2, men do considerably better than women, especially in terms of JTM Wage.

Cluster 2 is composed of a great many related occupations. It is apparent that there is a great deal of transferability among these occupations

as far as placement is concerned. Recalling that a cluster JTM relates to placement within a cluster and a subcluster JTM relates to placement only within a subcluster, the Cluster 2 % JTM for women is 67.6% while the composite subcluster % JTM for women within Cluster 2 is only 46%. This indicates that women trained in one clerical subcluster who are placed within the cluster are placed in another clerical subcluster about one-third of the time. Given this, the question must be asked about why so many specific types of clerical training are offered. Is there really all that much difference between a bookkeeper and an accounting clerk?

The single largest subcluster for both men and women, comprising 38.8% of all Cluster 2 completers, is Subcluster 2A, Clerk Typist. Table 2-4 displays the indicators for this subcluster.

TABLE 2-4

|   |                  |            |             | IADLE          | <u> </u>  |                |               |                |
|---|------------------|------------|-------------|----------------|-----------|----------------|---------------|----------------|
|   |                  | - Cat<br>I | #<br>Placed | %<br>Placed    | #<br>JTM  | %<br>JTM       | P/JTM<br>Rate | JTM<br>Wage    |
| , | 2A (M)<br>2A (F) | 112<br>523 | 75<br>286   | 67.0%<br>54.7% | 47<br>151 | 62.7%<br>52.8% | .420          | 4.16 \<br>3.05 |
| ۸ | 2A (T)           | 635        | 361         | 56.9%          | 198       | 54.9%          | .312          | 3.31 ,         |

Note that males in the subcluster fared much better than females on all counts, especially in JTM Wage. To further explore this phenomenon, table 2-5 compares males and females in the subcluster who trained at the same centers.

TABLE 2-5

|   |                  | ·         |             |                |          |           |               |                   |
|---|------------------|-----------|-------------|----------------|----------|-----------|---------------|-------------------|
| - |                  | Cat       | #<br>Placec | %<br>Placed_   | #<br>JTM | %<br>JTM: | P/JTM<br>Rate | JTM<br>Wage       |
| - | Males<br>Females | 93<br>332 | 63<br>184   | 67.7%<br>54.7% | 39<br>78 | 61.7%     | .419<br>.268  | \$4.403<br>\$3.18 |

Thus, a comparison of male and female completers from the same centers shows very nearly the same disparities.

In Cluster 2, a subcluster 2-D, Keypunch Operator, has the best indicators. These are shown in table 2-6.

TABLE 2-6

|                  | #<br>Cat  | #<br>Placed | %<br>Placed   | #<br>JTM | %<br>JTM | -P/JTM<br>Rate | JTM<br>Wage    |
|------------------|-----------|-------------|---------------|----------|----------|----------------|----------------|
| 2D (M)<br>2D (F) | 21<br>118 | 18<br>71    | 85.7%<br>60.2 | 14<br>43 | 77.8%    | .667           | \$4.30<br>3.49 |
| 2D (T)           | 139       | 89          | 75.4%         | 57       | 64.0%    | .410           | \$3.69         |

Of the other subclusters in Cluster 2, only a passing mention will be made. They are nearly all characterized by low % Placed, low % JTM, and low JTM Wages.

Cluster 03\_with 732\_Category\_I\_terminations represented 6.4% of all Category I terminations reported in FY 1977. The 655 males were 8.1% of all male completers, and the 77 females were 2.3% of all female completers. During the year, 32.5% of all terminations from the cluster were completers (38% for males and 34.7% for females). The Civilian Conservation Centers tended to have very low completion rates, 23.4%, on the average. Virtually all of the activity by CCCs in this cluster was in subcluster 03-B, Custodial Maintenance.

Table 03-1 shows the indicators for the cluster compared to all clusters.

TABLE 03-1

| #<br>- Cat #<br>- I Placed               | %<br>Placed    | #<br>JTM  | %<br>JTM       | P/JTM <sup>·</sup><br>Rate | JTM Y<br>Wage |
|--|----------------|-----------|----------------|----------------------------|---------------|
| _ Males 03 ~ 655 413<br>Females 03 77 41 | 63.1%<br>53.7% | 211<br>18 | 51.1%<br>43.9% | .322                       | 2.84<br>2.47  |
|  | 62.0%          | 229       | 50.4%          | .313                       | 2.81          |

Thus, while the "% placed" was near the Job Corps Category I average, the % JTM and JTM Wage were well below the average.

Most of the Category I terminees in the cluster and nearly. All male CAT Is were in subcluster 03-C, Custodial Maintenance. Table 03-2 shows the indicators for all males, males from CCCs and the total for the subcluster.

|   |            | # .<br>Cat<br>I | #<br>Placed             | %<br>Placed    | #<br>JTM  | %<br>JTM       | P/JTM<br>Rate | JTM<br>Nage  |
|---|------------|-----------------|-------------------------|----------------|-----------|----------------|---------------|--------------|
|   | Males 03-B | 634<br>217      | 398 <sup>-</sup><br>142 | 62.8%<br>65.4% | 162<br>55 | 40.7%<br>38.7% | .256<br>.253  | 2.84<br>2.95 |
| - | TOTAL      | 645             | 406                     | 62.9%          | - 167     | _41.1% .       | .259          | 2.85         |

NOTE: Male 03-B and CCC 03-B are not mutually exclusive and will not equal the total, which includes females.

Although the subcluster has average placement rates, the % JTM is very low, as is the JTM Wage. Although CCCs have better indicators for Category I terminees, Table 3-1 showed that the completion rate for this subcluster for CCCs is very low.

The other significant 03 subcluster is 03-K, Nursery School Teacher, primarily for women. Table 03-3 shows the indicators for this subcluster.

**TABLE 03-3** 

|       | #     | #      | %      | #   | %     | P/JTM | JTM  |
|-------|-------|--------|--------|-----|-------|-------|------|
|       | Cat ' | Placed | Placed | JTM | JTM   | Rate  | Wage |
| TOTAL | 47    | . 23   | 48.9%  | 7   | 30.4% | .149  | 2.31 |

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This is not indicative of Job Corps' best offerings.



All Category I terminees and virtually all other terminees in this cluster appear in two subclusters. Activity for 04-B, Nursery Worker, occurred primarily at contract centers. Activity for 04-C, forestry and conservation worker, was primarily at Civilian Conservation Centers. Cluster 04 produced about 5% of all Category I terminees reported in 1977. For the cluster as a whole, the key indicators were as follows (compared to the indicators for all clusters).

TABLE 4-1

| •            | #<br>Ca't<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>ЈТМ | P/JTM<br>Rate | JTM<br>Nage    |
|--------------|----------------|-------------|-------------|----------|----------|---------------|----------------|
| Male-04      | 184            | 132         | 71.7%       | 79       | 59.9%    | .429          | <b>\$3.2</b> 8 |
| Female-04    | 32             | 24          | 75.0%       | 14       | 58.0%    | .438          | 3.45           |
| Total-04*    | 216            | 156         | 72.2%       | 93/      | 159.6%   | .431          | 3.31           |
| Male-All . 8 | 3,078          | 5,153       | 67.5%       | 3,290    | 60.3%    | .407          | 3.57           |
| Female-All 3 | 3,286          | 1.828       | 55.6%       | 1,194    | 65.3%    | .363          | 2.92           |
| Total-All li | 1,364          | 7,281       | 64.1%       | 4,480    | 61.5%    | .394          | 3.40           |
| ·            | _              | ٠,٠         |             | •        | ~        | . ~~~         |                |

<sup>\*</sup> Cat I placement wage equals \$2.77.

Category I terminees represented 50% of all terminees reported for the cluster. For males, the completion rate was 49.3% and for females, 59.7%.

The following comparison of the two subclusters is striking.

TABLE 04-2

|               |                           | #<br>Cat<br>I | #<br>Placed               | %<br>Placed    | #<br>JTM | %<br>JTM       | P/JTM<br>Rate | JTM<br>_Wage   |
|---------------|---------------------------|---------------|---------------------------|----------------|----------|----------------|---------------|----------------|
| -             | Male 04-B<br>Female 04-B  | 64<br>17      | - 33 <sup>2</sup> .<br>10 | 51.6%<br>58.8% | 8 7      | 24.2%<br>70.0% | .175 1        | \$2.62<br>2.56 |
| - K           | TOTAL 04-B                | 81            | 43                        | 53.1%          | :j)15    | 34.9%          | . 1,85        | . \$2.59       |
| <del>-•</del> | Male 04-C.<br>Female 04-€ | 119<br>15     | 98<br>14                  | 87.4%<br>93.3% | 651      | 66.3%<br>42:9% | .546          | \$3.30<br>4.06 |
| !             | TOTAL 04-C                | 134           | 112                       | 83.6%          | 71       | 63.4%          | .530          | \$3.36         |

Table 04-2 shows that graduates of 04-B were far less likely to be placed than those of 04-C; that they were far less likely to be placed in jobs for which they were trained; and that they were placed in jobs at far lower wages.

#### CLUSTER 05/25 FF00D SERVICE

The 1241-Category I terminees from the cluster represented 10.9% of all completers reported during FY 1977. The 990 male completers represented 12.3% of all male completers while the 251 female completers represented 7.6% of all female completers reported during the year. The completion rate for the cluster was 38.5% (40% for males and 33.5% for females).

Table 5-1 shows the indicators for the cluster as compared to all clusters.

TABLE 5-1

|                               | <             | -*             | * n            | 4. /         |          |               |               |
|-------------------------------|---------------|----------------|----------------|--------------|----------|---------------|---------------|
|                               | #<br>Cat<br>I | #<br>Placed 1  | · %            | JTM          | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage   |
| Cluster 5 (T)<br>All Clusters | 1,241         | 762 -<br>7,281 | 61.4%<br>64.1% | 471<br>4,480 | 61.8%    | .380          | INA<br>\$3.40 |
| Difference                    |               |                | -3.7%          |              | +0.3%    | 014           |               |

Cluster 5 is very close to the Job Corps-wide indicators for Category I terminations.

Table 5-2 displays the indicators for male completors from Cluster 5 as compared to those for all male completers.

| Ĉat.               | #<br>Placed | Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|--------------------|-------------|--------|----------|----------|---------------|-------------|
| Cluster 5 (M) 990  | 634         | 64.0%  | 384      | 60.6%    | .388          |             |
| Clusters (M) 8,078 | 5,453       | 67.5%  | 3,290    | 60.3%    | .407          |             |
| Difference         |             | -3.5%  | ,        | +0.3%    | -,019         |             |

Although the placement rate for males is slightly lower for the cluster, the indicators are close to the Job Corps average for males.

Table 5-3 displays the indicators for female completers from Cluster 5 as compared to those for all female completers.

TABLE 5-3

|   | •                                | #<br>Cat<br>I   | #<br>Placed  | %<br>Placed    | #<br>JTM  | %<br>. JTM     | P/JTM<br>Rate | JTM<br>Wage |
|---|----------------------------------|-----------------|--------------|----------------|-----------|----------------|---------------|-------------|
|   | Cluster 5 (F)<br>All Clusters (I | 251<br>F) 3,286 | 128<br>1,090 | 51.0%<br>55.4% | 87<br>695 | 68.0%<br>63.8% | .347          | , ,         |
| , | Difference                       | ,               |              | _4.0%          | · .       | +4.2%          | 007           |             |

Thus, the relatively lower placement rate for the cluster and the relatively high JTM rate net out to a P/JTM rate which approaches that rate for all female completers in Job Corps.

Table 5-4 shows the indicators for subcluster 5A, Waiter/Waitress

TABLE 5-4

|                  | Cat      | Placed: | %<br>Placed    | #<br>JTM: | JTM            | P/JTM<br>Rate | JTM<br>Wage | P |
|------------------|----------|---------|----------------|-----------|----------------|---------------|-------------|---|
| 5A (M)<br>5A (F) | 15<br>23 | 11°.    | 73.3%<br>73.9% | 7<br>12   | 63.6%<br>70.6% | .467<br>.521  | <u>-</u>    |   |
| TOTÁL            | - 38     | 28      | 73.7%          | 19        | 67.9%          | .500          | _           |   |

Although this subcluster has high indicators, it is impossible to determine the JTM Wage given the manner in which most waiters are paid, i.e., wages and tips.

By far the largest subcluster in Cluster 5 is 05-B, Cook. Table 5-5 displays the indicators for the subcluster.

TABLE 5-5

| ~ | ,                | #<br>Cat<br>I           | #<br>Placed | %<br>Placed    | ·#<br>JTM | %<br>JTM       | P/JTM<br>Rate | JTM<br>Wage |
|---|------------------|-------------------------|-------------|----------------|-----------|----------------|---------------|-------------|
| • | 5B (M)<br>5B (F) | 650<br>61- <sup>5</sup> | 419<br>: 35 | 64.5%<br>57.4% | 223<br>17 | 53.2%<br>48.6% | .343          | -<br>-      |
|   | 5B (T)           | 711                     | 454         | 63.9%          | 240       | 52.9%          | .338          |             |

The indicators for this subcluster are lower across the board than the Job Corps average.

Table 5-6 shows the indicators for subcluster 05-C/25-C, Baker. Because the number of centers is small relative to the number of completers, all centers with completers will be listed.

TABLE 5-6

| <br>e<br>Galagan e |          |          | 4 9 14 4 10 20 1 | 2 2 14 To 25 | ړ خپه ي نوخي<br>پ | 1 20-4 100 37 | <del></del>   | <del></del> i, |
|--------------------|----------|----------|------------------|--------------|-------------------|---------------|---------------|----------------|
|                    |          | Gat<br>I | #<br>Placed      | %<br>Placed  | #<br>OTM          | %<br>JTM      | P/JTM<br>Rate | ÚTM.<br>Wage   |
| TÒTAL              | <u> </u> | 212      | 115              | 54.3%        | 36                | 31.3%         | .169          | \$2.64         |

Only a little more than half of the graduates of the subcluster were placed, and less than one-third of these got jobs as bakers.

The 1,320 Category I terminees from this cluster represent 11.6% of all completers reported in FY 1977. The 1,288 males represented 15.9% of all male completers, while the 32 females represented only about 1% of all female completers reported during the year. The completion rate of 29% (29.1% for males and 27.6% for females) was the lowest of any clusters.

Table 6-1 displays the indicators for the cluster as compared to all clusters.

TABLE 6-1

| , ··. | *  | · #               |              |                        | ,            | ~                       |                     |                         | ٠. |
|-------|--|-------------------|--------------|------------------------|--------------|-------------------------|---------------------|-------------------------|----|
| -     |  | Cat               | #<br>Placed  | %<br>Placed            | #<br>JTM     | %<br>JTM                | P/JTM<br>Rate       | JTM<br>Wage             | •  |
|       | Cluster 6 (T)<br>All Clusters (T<br>Difference | 1,320<br>) 11,364 | 842<br>7,781 | 63.8%<br>64.1%<br>-0.3 | 409<br>4,480 | 48.6%<br>61.5%<br>-12.9 | .310<br>.394<br>084 | \$2.89<br>3.40<br>-0.51 |    |

Although the placement rates for the cluster were virtually the same as for all clusters, the JTM rate was 12.9 percentage points below the Job Corps average, while the JTM wage was \$0.51 an hour less than the Job Corps average.

Table 6-2 displays the indicators for male completers from the clusters as compared to all male completers.

|  |        | #<br>Cat<br>I  | #<br>Placed  | %<br>Placed            | #.<br>JTM    | %<br>JTM                | P/JTM<br>Rate      | JTM<br>Wage             |   |
|--|--------|----------------|--------------|------------------------|--------------|-------------------------|--------------------|-------------------------|---|
| *Cluster 6<br>All Cluste<br>Difference | ns#(M) | 1,288<br>8,078 | 828<br>5,453 | 64.3%<br>67.5%<br>-2.8 | 404<br>3,290 | 48.8%<br>60.3%<br>-11.5 | 314<br>.407<br>093 | \$2.88<br>3.57<br>-0.69 | • |

As with the comparison with all Category I terminees, male completers from the cluster were placed at about the same rate as all male completers, but the JTM rate was 11.5 percentage points lower for Cluster 6 male completers than for all completers, and the JTM wage was \$0.69 an hour lower.

It is interesting to note that, unlike Cluster 2, there is relatively little transferability between occupations within the cluster, considering the similar skills offered by the various subclusters. The JTM rate for males for the cluster is 48.8% (reflecting a JTM for any occupation within the cluster). However, the composite JTM for the subclusters is 42.1% reflecting only a 6.7 percentage point difference.

Table 6-3 displays the indicators for subcluster 6A, Auto Mechanic Helper.

TABLE 6-3

| 1     | . Cat | #<br>Placed | g ♣€<br>Placed |    | JTM | P/JTM<br>Rate | JTM<br>Wage |
|-------|-------|-------------|----------------|----|-----|---------------|-------------|
| TOTAL | , 258 | 170         | 68%            | 68 | 40% | .264          | \$2.77      |

With the exception of % placed, the indicators are much lower than the Job Corps average.



Table 6-4 displays the indicators for subcluster 6B, Auto

Service Repair.

TABLE 6-4

| 12.      | -          | *  | #          | 17.00       | <del></del>    |            |               |               | <u></u> i    |
|----------|------------|----|------------|-------------|----------------|------------|---------------|---------------|--------------|
|          |            | ** | Cat<br>I   | #<br>Placed | %<br>Placed    | #.<br>JTM: | %<br>JTM      | P/JTM<br>Rate | JTM<br>Wage  |
| 6B (     | (M:)       |    | 421        | 272         | 64.6%          | 128        | 47.1%         | .303          | \$2.91       |
| 6B (     | (F)<br>(T) | •  | 7<br>428:- | 276         | 57.1%<br>64.5% | 1<br>129 . | 25 %<br>46.7% | .143<br>.301  | 3.00<br>2.91 |
| <u>.</u> | · .        | o  | ٠.         | •           |                |            |               |               |              |

Table 6-5 displays the indicators for two small subclusters: 6C, Farm Truck Equipment, and 6D, Small Gas Engine Repair.

ȚABLE 6-5

|        | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>- JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|--------|---------------|-------------|-------------|------------|----------|---------------|-------------|
| 6C (M) | 18            | 12          | 66.7%       | . 2        | 16.7%    | .111          | \$3.00      |
| 6D (M) | 22            | 14          | 63.6%       | . 5        | 35.7%    |               | 2.88        |

Note that the placement rates are average but that the JTM is very low for both occupations.

Table 6-6 displays the indicators for subcluster 6E, Auto Body Repairman, for the total cluster and key centers.

TABLE 6-6

| 1 | ,     |   |   | #<br>Cat<br>I |   | #<br>Placed | %<br>Placed | # .<br>JTM | ~ %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|---|-------|---|---|---------------|---|-------------|-------------|------------|------------|---------------|-------------|
|   | TOTAL | • | • | 290           | • | 195         | 67.2%       | 99         | 50.8%      | .341          | \$2.83      |

Table 6-7 displays the indicators for the remaining, relatively small subclusters in Cluster 06/26.

TABLE 6-7

| ************************************** | #<br>Cat<br>I | #<br>Placed | %<br>Placed   | #<br>JTM | %<br>JTM      | P/JTM<br>Rate | JTM Wage       |
|--|---------------|-------------|---------------|----------|---------------|---------------|----------------|
| 6F (M)<br>6H (M)                       | 37:           | . 18<br>23  | 48.6%<br>59.0 | 10       | 55.6%<br>21.7 | .270<br>.128  | \$3.15<br>2.67 |
| 6H (M)<br>6K (M)<br>6L (M)             | · 1<br>• 5    | 0 4         | .0<br>80.0    | . 1      | 25.0          | .200          | 4.00           |
| 6N (M)<br>60 (M)                       | · 64          | 38<br>1     | 59.4<br>100.0 | 4<br>1   | 19.5<br>100.0 | .063<br>1.000 | 4.79°<br>2.55  |
| 6P (M)                                 | i<br>-11      | 1<br>6      | 100.0<br>54.5 | -<br>3 · | 50.0          | -<br>.273     | 3.44           |
| 6R (M)<br>6X (M)                       | 81            | 59          | 72.8%         | 12       | 23.5%         | .198          | <u>\$8.89</u>  |

Subcluster 6F, Auto Parts Clerk, is characterized by low placement (48.6%) and only slightly better JTM (55.6%).

Subcluster 6N, Diesel Mechanic, had one of the lowest JTM rates (105%) and P/JTM rates (.063) of any occupation reviewed. Only Jacobs Creek did well. The 26 Atterbury graduates did not have a single JTM.

TABLE 6-8

|           |   | #Cat I. | #Placed | %Placed | #JTM | %JTM- | P/JTM Rate       | JTM Wage       |
|-----------|---|---------|---------|---------|------|-------|------------------|----------------|
| Q7F/27F ^ | T | 261     | 169     | 64.8%   | 76 \ | 45%   | .291             | \$4.93         |
| 07G       | Т | 2       | 0       | -       | ` -  |       | <del>-</del> , . | -              |
| `07H      | Т | 61      | 35      | 57.4    | 11   | 31.4. | .180             | 3.12           |
| 07.1      | T | 115     | 91      | 79.1    | 60   | 65.9  | .522             | <b>3.</b> 94 、 |
| 07J       | Т | . 1     | 1       | 100.0   |      | 100.0 | .1.000           | 3.00           |
| 07K       | Т | 83 ,    | 49      | 59.0    | 24   | 49.0  | .289             | `4.22          |
| 07L/27L   | Т | 261     | 171     | 65.5    | 83,  | ±43.5 | .318             | 3.81           |
| 07x/27x   | т | 237     | 186     | 78.5%   | 100  | 53.8% | .422.            | \$3.70         |

#### CLUSTER 07/27 - CONSTRUCTION TRADES

The 3,087 Category I terminees from cluster 07/27 represented 27.2% of all completers reported in FY 1977. The 3,018 male completers from the cluster represented 37.4% of all male completers during the year, while the 69 female completers represented only 2.1% of all female completers during the year. The completion rate for the cluster was 36.7% (37.1% for males and 24.4% for females).

Table 7-1 shows the indicators for the cluster as opposed to those for all clusters, while table 7-2 shows the indicators for the cluster as compared with all other clusters. In both tables the variances are noted.

|          |                                       |                |                   |                |              |          |               |                      | <del></del> |
|----------|---------------------------------------|----------------|-------------------|----------------|--------------|----------|---------------|----------------------|-------------|
| 77       | · · · · · · · · · · · · · · · · · · · | #°<br>Cat<br>I | #<br>Placed       | %<br>Placed    | #<br>- JTM   | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage          |             |
|          |                                       |                |                   | OTAL           | ·            |          |               | 4                    |             |
|          | All Clusters                          | 11.364         | 7.,281            | 64.1%          | <u>4,480</u> | _61.5%_  | .394          | \$3.40               |             |
|          | 07/27                                 | 3,087          | 2,168             | 70 <b>.</b> 2. | 1,427        | 65.8     | .462          | 4.02                 |             |
|          | -07/27_vs_All<br>Clusters             | 27.2%          | •                 |                | 31.9%        | ,        | +.068         | +\$0.62              | ₹           |
|          | , ,                                   |                | , ` M             | ALE            |              | -        |               |                      |             |
| 1        | All Clusters                          | 8,078          | 5,453 <sup></sup> |                | 3.290        | 60.3     | .407          | \$3.57               |             |
|          | 07/27                                 | 3,018          | 2,124             | 70.2           | 1,491        | 66.0     | .464          | 4.01                 | •           |
|          | 07/27 vs All<br>Clusters              | 37.4%          | 39.0%             | +2.7           | 42.6%        | +5.7     | +.051         | . \$0.44             | *           |
| İ        | •                                     | -              | . FE              | MALE           |              |          |               |                      | •           |
| ٠ .      | All Clusters                          | 3,286          | _1,828            | 55 6           | 1,194        | ° 65.3   | .363          | \$2.92               |             |
| <u> </u> | 07/27                                 | 69             | 44                | 63.8           | 26           | 59.1     | .377          | 4.81                 | •           |
|          | .07/27 vs All<br>Clusters             | 2.1%           | 2.4%              | +7.8%          | 2.2%         | -6.2%    | +.014         | <sub>+</sub> +\$1.89 |             |

TABLE 7-2

| ***                            |                |               |                                       | •             | _ <u> </u>    |                |   |
|--------------------------------|----------------|---------------|---------------------------------------|---------------|---------------|----------------|---|
|                                | , Cat          | #<br>Placed P | -% #<br>laced JTM                     | %<br>J'TM     | P/JTM<br>Rate | JTM<br>Wage    |   |
| All Other<br>Clusters<br>07/27 | 8,277<br>3,087 | 5.453         | TAL<br>65.9% 3,053<br>70.2 1,427      | 56.0%<br>65.8 | .369<br>.462  | \$3.11<br>4.02 |   |
| 07/27 vs Al<br>Other Cluste    | ers            |               | +4.3                                  | +9.8          | .093          | 0.91           | ` |
| All Other<br>Clusters<br>07/27 | 5,060<br>3,018 |               | <u>LE</u><br>65.8 1,899<br>70.2 1,401 | 56.7<br>66.0  | .373<br>.464  | 3.24<br>4.01   | Ą |
| 07/27 vs All<br>Other Cluster  | rs .           |               | +4.4                                  | 9.3           | .091          | 0.77           |   |
| All Other<br>Clusters<br>07/27 | 3,217 69       | 1,784         | MALE<br>55.5 ,158<br>63.8 26          | 65.4<br>59.1  | .363          | 2.88<br>4.81   |   |
| 07/27 vs All<br>Other Cluster  | rs             | •             | +8.3%                                 | -6.3%         | +.014         | +\$1.93        |   |



It is clear that the construction trades have a near acrossthe-board advantage on other occupational clusters in terms of placement, JTM, and JTM wage.

However, the-construction trades-vary as to their relative placement effectiveness as shown in table 7-3.

TABLE 7-3

| ì                               |                        |                 |  |             |                       | -                    |   |     |
|---------------------------------|------------------------|-----------------|--|-------------|-----------------------|----------------------|---|-----|
| 2                               | # Cat<br>I             | #<br>Placed     | %<br>Placed  | #<br>JTM    | %<br>JTM              | P/JTM<br>Rate        | JTM<br>Wage                             |     |
| 07/27 (11) Female Total         | 3,018<br>69:<br>-3,087 | 44              | 70.4%<br>63.8<br>70.4                                    | 26          | 66.0%<br>59.1<br>65.8 | .464<br>.377<br>.462 | \$4.01<br>4.81<br>4.02                  |     |
| ,                               |                        | CARPENT         |  | •           |                       |                      | • | , , |
| O7A/27A (M) Female Total        | 940<br>12<br>952       | 704<br>9<br>713 | 74.9<br>75.0<br>74.9                                     |             | 62.9<br>77.8          | .471<br>.583<br>.473 | \$4.33<br>6.23<br>4.36                  | • ' |
|                                 |                        | Ė               | ECTRIC:  | IAN         |                       | -                    |   |     |
| (1) (1) (1) (1) (1) (1) (1) (1) | 213                    | 134             | 62.9   | <del></del> | 53.7                  | .338                 | \$3.54                                  | •   |
| Total                           | ·2<br>215              | -135            | 50.0<br>62.8   |             | 100.0<br>54.1         | .340                 | 3.00<br>3.53                            | •   |
| <u>·</u>                        | •                      | Ci              | MENT MA  | ASON        | •                     |                      | •                                       |     |
| O7C/27C (T)                     | 178 .                  |                 | 70.2   | 61          | 48.8                  | .343                 | \$4.17                                  |     |
|                                 |                        | BRICE           | <td>N'ASON</td> <td></td> <td></td> <td></td> <td>1</td> | N'ASON      |                       |                      |   | 1   |
| 07D/27D (T)                     | 376                    | 215             | 64.0   | 124         | 57.7                  | .380                 | \$4.02                                  | , , |
|                                 | \ .                    | PAINTE          | R/PAPER  | RHANGER     | 2                     |                      | •                                       |     |
| 07E/27E (M)                     | 3 <b>63</b> \          | 255             | 70.3   | 145         | 56.9                  | .399                 | \$4.36                                  | •   |
| Female<br>Total                 | 15                     | 7               | 46.7   | 3.          |                       | .200                 | 5.74                                    |     |
| , iotai                         | 378                    | 262             | 69.3%  | . 148       | 56.5%                 | .392                 | 4.39 ·                                  | ٠.  |

Clearly, subcluster O7I, Plasterer, stands out as a superior vocational offering followed by subcluster O7A; Construction Carpenter. Conversely, subcluster O7H, Plumber, shows very poor performance almost across the board.

Because of the relatively heavier emphasis on union construction programs at CCCs, it is interesting to note the comparisons between them and other centers.

TABLE 7-4

| -                                     | #<br>Cat<br>I | #<br>Placed  | %<br>Placed            | #<br>JTM   | %<br>JTM               | P/JTM<br>Rate         | JTM<br>Wage               | · _ |
|---------------------------------------|---------------|--------------|------------------------|------------|------------------------|-----------------------|---------------------------|-----|
| CCCs (M) Other Centers (M) Difference | ,853<br>1,165 | 1,334<br>790 | 72.0%<br>67.8%<br>+4.2 | 917<br>484 | 68.7%<br>61.3%<br>+7.4 | .495<br>.415<br>+.080 | \$4.35<br>3.39<br>+\$0.96 |     |

It is apparent that completers from CCCs did relatively better in the construction trades.

Table 7-5 displays the indicators for subcluster O7A/27A, Construction Carpenter. As mentioned previously, subcluster O7A/27A has superior indicators.

07A/27A Carpenter Construction

| 11,364<br>952   | 7,281                | TOTAL<br>64.1%                      | 4,480   | C1  |  | Hage   |
|-----------------|----------------------|-------------------------------------|---|---|--|--|
| 11,364 1<br>952 |                      | 64.1%                               | 4.480   | C) Fø   |  | •  |
| 952             |                      |                                     | -T & TOU  | 61.5%   | 394  | \$3.40   |
|                 | 713                  | 74.9                                | 450   | 63.1%   | .473   | 4.36   |
| 8.4%            | 9.8%                 | +10.8                               | 10.0%   | +1.6%   | +.079  | \$6.96   |
|                 | •                    | MALE                                |   | • •   |  | •  |
| 8,078           | 5,453                | 67.5                                | 3.290   | 60.3%   | .407   | \$3.57   |
| 940             | 704                  | 74.9.                               | 443   | 62.9%   | 471  | 4.33   |
| 11.6%           | 12.9%                | +7.4%                               | 13.5%   | +2.6%   | +.064  | \$0.76   |
|                 | 8.4%<br>8,078<br>940 | 8.4% 9.8%<br>8,078 5,453<br>940 704 | 8.4% 9.8% +10.8<br>8,078 5,453 67.5<br>940 704 74.9 | 8.4% 9.8% +10.8 10.0%<br>8,078 5,453 67.5 3,290<br>940 704 74.9 443 | 8.4% 9.8% +10.8 10.0% +1.6%  8,078 5,453 67.5 3,290 60.3% 940 704 74.9 443 62.9% | 8.4% 9.8% +10.8 10.0% +1.6% +.079  8.078 5,453 67.5 3.290 60.3% .407 940 704 74.9 443 62.9% .471 |

Table 7-6 shows the indicators for subcluster 07B/27B. The indicators are generally lower than from other construction trades.

TABLE 7-6
07B/27B Electrician

|   | #<br>Cat      | ц            | · ·                    | . 4              | *              | P/JTM        | . ATC          |
|---|---------------|--------------|------------------------|------------------|----------------|--------------|----------------|
| • 1                                       | Ĭ             | Placed.      | Placed                 | J <sup>™</sup> M | JTM            | Rate         | Wage           |
| A11 Clusters 07B/27B                      | 11,364<br>215 | 7,281<br>135 | TOTAL<br>64.1%<br>62.8 | 4,480            | 61.5%          | .394         | \$3.40<br>3.53 |
| 07B/27B vs All<br>Clusters                | 1.9%          | 1.9%         | -1.3                   | •                | -7.4%          | 054          | \$0.13         |
|   |               | •            | MALÉ                   | •                |                |              | •              |
| All Clusters<br>07B/27B<br>07B/27B vs All | 8,078<br>213  | 5,453<br>134 | 67.5<br>62.9           |                  | 60.3%<br>53.7% | .407<br>.338 | \$3.57<br>3.54 |
| Clusters                                  | 2.6%          | 2.5%         | 4.6%                   | 2.2%             | -6.6%          | .069         | \$0:03         |

Table 7-7 shows the indicators for subcluster O7C/27C, Cement Mason. This subcluster has good percentage placement but a below average % JTM, resulting in a P/JTM of only .343.

| - 1 |   | ·    | <br>eme |     |         |     |
|-----|---|------|---------|-----|---------|-----|
| ~   |   | 107  | <br>    |     |         | -   |
|     | / | ,,,, | <br>one | nr. |         |     |
|     |   | , L, |         |     | 1 100 4 | ••• |
|     |   |      |         |     |         |     |

|            |                            | Cat                        | # .<br>Placed | %<br>Placed            | JTM         | %<br>JTM        | P/JTM<br>Rate | JTM<br>Wage     | 1 |
|------------|----------------------------|----------------------------|---------------|------------------------|-------------|-----------------|---------------|-----------------|---|
| •.         | A11 Clusters               | 11,364 <sup>-</sup><br>178 | 7,281<br>125  | TOTAL 64.1% 70.2%      | 4,480<br>61 | -61.5%<br>48.0% | 394<br>.343   | \$3.40<br>4.17  |   |
| , <b>-</b> | 07C/27C vs All<br>Clusters | 1.6%                       | 1.7%          | . +6.1%                | 1.4%        | -13.5%          | 051           | \$0.77          |   |
|            | All Clusters<br>07C/27C    | 8,078<br>177               | 5,453<br>124  | MALE<br>67.5%<br>70.1% | 3,290<br>61 | 60.3%<br>99.2%  | .407<br>.345  | \$3.51<br>,4.17 |   |
| •          | 07C/27C vs All<br>Clusters | 2.2%                       | 2.3%          | : +2.6%                | 1.9%        | -11.1%          | 062           | +\$0.66         |   |

Table 7-8 displays the indicators for subcluster 07D/27D, Brick/Stone Mason. Except for the higher JTM wage, the indicators are very close to those for all clusters and are therefore lower than those for cluster 07/27 as a whole.

TABLE 7-8

|   |                            | #<br>Cat.<br>T | #<br>Placed    | %<br>Placed             | # '              | %<br>JTM       | P/JTM<br>Rate | JTM .<br>Wage  |
|---|----------------------------|----------------|----------------|-------------------------|------------------|----------------|---------------|----------------|
|   | All Clusters<br>07D/27D    | 11,364 ° 326   | 7,281,<br>/215 | TOTAL<br>64.1%<br>66.0% | 4,480<br>124     | 61.5%<br>57.7% | .394          | \$3.40<br>4.02 |
|   | 07D/27D vs<br>All Clasters | 2.9%           | 3.0%           | +2.1%                   | 2.8%             | -3.8%          | 014           | +40.62         |
| • | All Clusters<br>07D/27D    | 3,078<br>323   | 5,453<br>214   | MALE<br>67.5%<br>66.3%  | 3,290<br>124     | 60.3%<br>57.9% | .407<br>.384  | \$3.57<br>4.02 |
|   | 07D/27D vs<br>All Clusters | 4.0%           | <b>3</b> ,9%.  | -1.2%                   | <b>&amp;.</b> 8% | -2.4%          | 023           | +\$0.45        |

Paperhanger. The higher than average % placed and the lower than average % placed and the lower than average % placed and the lower than average % DIM netted out to a P/JTM about equal to that for all clusters but somewhat lower than that for all construction trades. The JTM wage, however, is somewhat higher than the average for the cluster as a whole.

TABLE 7-9

8.078

07E/27E vs All Clusters

/27E Painter/Paperhanger P/JTM JTM' JTM JTM Rate Wage 11,364 4,480 \$3.40 262 69.3 . 392 148 4.39 07E/27E vs 3.6% +5.2% All Clusters -5.0% ÷.002 +0.99 MALES

3,290

4.4%

60.3%

\$3.57

+\$0.79

4.36

.399

-.008

Table 7-10 shows the indicators for subcluster 07F/27F, Heavy Equipment Operator, along with a comparison of contract centers and CCCs. The subcluster has a relatively low JTM rate (45%) but a higher JTM wage. The JTM rate for contract centers was only 29.2%.

4.7%



TABLE 7-10

07F/27F Heavy Equipment Operator (Male Only)

| /· · ·                       | Cat<br>I | #:<br>Placed | %<br>Placed   | #<br>JTM | JTM               | P/JTM<br>Rate | JTM -<br>Wage |
|------------------------------|----------|--------------|---------------|----------|-------------------|---------------|---------------|
| - <del> </del>               |          |              | TÄL .         |          |                   |               | <b>.</b>      |
| All Clusters                 | 11,364   | 7,281        | 64.1%         | 4,480    | 61.5%             |               | \$3.40        |
| : 07F/27F                    | 261      | 169          | 64.8          | 76       | 45                | .291          | <b>4.93</b>   |
| 07F/27F vs<br>All Clusters   |          | 2.3%         | +0.7%         | 1.7%     | -16.5%            | 103           | +1.53         |
| <i>i</i>                     |          | MA           | LES           | A.       | •                 |               |               |
| ATT Clusters                 | 8,078    | 5,453        | 67.5%         | 3,290    | 60.3%             |               | \$3.57        |
| 07F/27F                      | 261      | 169          | 64.8          | 76       | . 45 <sub>.</sub> | .291          | 4.93          |
| 07F/27F vs<br>/All Clusters  | . 32%    | 3.1%         | -2.7%         | 2.3%     | -15.3%            | 116           | +\$1.36^      |
| $\int_{-\infty}^{\infty} dx$ | 3        | CONTRÃO      | T CENTE       | PS       |                   | . 3           | •             |
| Total                        | 130      | 89           | 68.5%         | 6        | 29.2%             | .200          | \$4.57        |
| Total                        | 131      |              | CCCs<br>61.1% | 50-      | 62.5%             | .382          | \$5.11\       |

As was discussed earlier, subcluster O7H had relatively poor performance, i.e., 57.4% placement, 31.4% JTM, 180 P/JTM rate, and a \$3.12/hour JTM. By contrast, subcluster O7I/27I, Plasterer, has excellent performance indicators. The JTM wage (\$4.99) was the highest of any occupation.

Subcluster 07K/27K, Construction Labor, was characterized by slightly below average placement (59%) and a well below average JTM rate (49%), altiquent the JTM wage, at \$4.22, was above the average for the cluster.

Table 7-11 shows the indicators for subcluster 97L/27L, Spot Welder. Although the placement rate is about average for all occupations, the JTM rate is very low at 48.2%. The JTM wage (\$3.75/hour) is higher than for the clusters but \$0.27 an hour lower than for all construction trades.

TABLE 7-11

07L/27L Spot Helder

|              | Cat.       | #                         |        | . ,#  | %      | P/JTM  | JTH     |
|--------------|------------|---------------------------|--------|-------|--------|--------|---------|
| - 3× 3/4     | <u>I</u>   | Placed Placed             | Placed | JTM   | JTM    | Rate   | Wage    |
| . 1          | , <b>;</b> | . 1                       | OTAL   |       |        | •      |         |
| All Clusters | 11,364     | 7,281                     | 64.1%  | 4,480 | 61.5%  | .394   | \$3.40  |
| 07L/27L      | 261        | 171                       | 65.5   | 83    | 48.5   | .318   | 3.81    |
| 07L/27L vs   |            |                           |        |       |        | ,      |         |
| All Clusters | 2.3%       | 2.4%                      | +1.4%  | 1.9%  | -13.0% | 076    | +\$0.41 |
|              | .,         |                           | ÍALES  |       | •      |        |         |
| All Clusters | 8,078      | <b>5,453</b> <sup>-</sup> | 67.5%  | 3,290 | 60.3%  | .407,- | \$3.57  |
| 07L/27L      | 249        | 164                       | 65.9   | . 79  | 48.2   | .317   | 3.75    |
| .07L/27L: vs |            |                           |        |       | ,      |        |         |
| All Clusters | `3.1%      | 3.0%                      | -1.6%  | 2.4%  | -12.1% | 090    | +\$0.18 |



## TABLE 7-12

Heavy Equipment Operator

| ` ` '         | 5 d v y                             |  |  |   |   |  |
|---------------|-------------------------------------|--|--|---|---|--|
| #<br>Cat<br>I | #<br>Placed                         | %<br>Placed  | #<br>JTM   | <sup>^</sup> %<br>JTM   | P/JTM<br>Rate   | JTM<br>Wage  |
|               |                                     |  |  |   |   |  |
| •             |                                     |  |  |   | 221   | ** 00  |
| 261           | 169                                 | 64.8%  | /6   | 45%.  | .291  | \$4.93   |
| •             | Furnace                             | <sub>P</sub> .Repairma   | n  | •   |   |  |
| . 2           | _                                   | -  | ·· -   | -   |   | -  |
| -             |                                     |  |  |   | 3   |  |
|               | • P1:                               | umber  | •  |   |   |  |
| 61            | 35                                  | 57.4%  | 111  | 31.4%   | .180  | \$3.12   |
|               | •                                   | r  |  |   | ,   |  |
|               |                                     |  |  |   |   | A 04   |
| 115           | 91                                  | 79.1%  | 60   | 65.9%   | .522  | \$5.04   |
|               | e Tila                              | cattar   |  |   |   | -  |
| 1             | * 111E                              |  | 1  | 100 0%  | 1.00  | \$3.00   |
| 1             |                                     | 100.0%   | •  | 100.00  | 1.90  | 40.00  |
|               | Construct                           | ion Labore   | r  |   |   |  |
| 83            |                                     |  |  | 49.0%   | .289  | \$4.22   |
| 00            |                                     | 00000  |  |   | •   | ·  |
|               | Spot                                | Welder   |  |   |   |  |
| 261           | 171                                 | 65.5%  | 83   | 43.5%   | .318  | \$3.81   |
|               |                                     | -  |  | ,   |   |  |
|               |                                     |  | 2  |   | 400   | 40.70  |
| 237           | 186                                 | 78.5%  | 700  | E3 00   | オクワ   | \$3.70   |
|               | 261<br>261<br>115<br>1<br>83<br>261 | Cat # Placed  261 169  Furnace 2 0  61 35  Placed  7116 1 1  Construct 83 49  Spot 261 171 | Cat # % I Placed Placed  261 169 64.8%  Furnace Repairma 2 0 -  Plumber 61 35 57.4%  Plasterer 115 91 79.1%  Tilesetter 1 1 100.0%  Construction Labore 49 59.0%  Spot Welder 171 65.5%  Other | I Placed Placed JTM  TOTALS  261 169 64.8% 76  Furnace Repairman 2 0  Plumber 61 35 57.4% 11  Plasterer 115 91 79.1% 60  Tilesetter 1 1 100.0% 1  Construction Laborer 49 59.0% 24  Spot Welder 171 65.5% 83  Other | Total # % # %  I Placed Placed JTM JTM   TOTALS  261 169 64.8% 76 45%  Furnace Repairman 2 0  Plumber 35 57.4% 11 31.4%  Plasterer 115 91 79.1% 60 65.9%  Tilesetter 1 1 100.0% 1 100.0%  Construction Laborer 49 59.0% 24 49.0%  Spot Welder 261 171 65.5% 83 43.5%  Other | Cat # % # % P/JTM Rate  261 169 64.8% 76 45% .291  Furnace Repairman 0 |

#### CLUSTER 8 - ELECTRICAL APPLIANCE REPAIR

The 155 Category I terminations from Cluster 8 reported in FY 1977 represented only 1.5% of all Category I terminations reported during the year. All but five of these terminations were made. These 166 completers represented 38.2% of the 434 terminees of all categories from the cluster.

Table 8-1 shows the indicators#for the cluster as compared to all clusters.

TABLE 8-1.

|              | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM               | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|--------------|---------------|-------------|-------------|------------------------|----------|---------------|-------------|
| Cluster      | 166           | 111         | 68.9%       | 37                     | 33.3%    | .230          | \$2.71      |
| All Clusters | 11,364        | 7,281       | 64.1%;      | 4 <b>,</b> 48 <u>9</u> | 61.5%    |               | \$3.40      |

Thus, although the placement rate is slightly higher than average (although it is very close to the male placement rate of 67.5%), the JTM rate at 333.3% is the lowest by far of any of the clusters. It should be noted that, because of its relatively higher placement rate, the cluster escapes the dubious honor of the lowest P/JTM rate; that fate is reserved for Cluster 01, Subprofessional. It should also be noted that if the 29 graduates from Arecibo, Puerto Rico, are excluded, the JTM wage rises from \$2.71 to \$3.29, which is closer to the \$3.40 average for all clusters and \$3.57 for all Category I males.

Table 8-2 shows the indicators for the major subclusters, OSA, Air Conditioner Repair Mechanic.

TABLE 8-2

|       | Cat | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-------|-----|-------------|-------------|----------|----------|---------------|-------------|
| TOTAL | 114 | .72         | 63.2%       | 7        | 9.7%     | .061          | \$2.82      |

Thus, the graduates of this subcluster were not very successful in obtaining work for which they were trained.

The other subcluster with a significant number of graduates was OSG, Electrician Helper. Table 8-3 shows the indicators for the subcluster.

TABLE 8-3

|       | #<br>Cat | # ,   | %<br>Placed | #<br> | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-------|----------|-------|-------------|-------|----------|---------------|-------------|
| TOTAL | 30       | 27 ·· |             | 22    | 81.5%    | .733          | \$2.48      |

#### CLUSTER 09 - INDUSTRIAL PRODUCTION

The 1,420 Category I termination for Cluster 09 represented 12.5% of all completers from all clusters reported in FY 1977. The 1,193 male completers were 14.8% of all male completers reported during the year; 41.4% of all terminations from the cluster were completers (41.8% for men and 39.2% for these clusters compared to those for all clusters).

**TABLE 09-1** 

|   | #                               | #                          | % # %  | P/JTM JTM              |
|---|---------------------------------|----------------------------|--|------------------------|
|   | Trained                         | Placed                     | Placed JTM JTM   | Rate Wage              |
| Male 09<br>Female 09<br>Total<br>All Clusters | 1,193<br>227<br>1,420<br>11,364 | 832<br>122<br>954<br>7,281 | 69.7% 549 64.<br>53.7 62 50.8<br>67.2 602 63.1<br>64.1% 4,480 61.5 | .273 3.17<br>.424 3.48 |

The indicators for this cluster are very near those for all clusters. Considering females separately, the cluster has a lower JTM rate (50.8% compared to 65.3% for all females) but a higher JTM wage (\$3.17 vs \$2.92).

No one subcluster is dominant in Cluster 09. Each of the major subclusters will be discussed separately.

Table 09-2 shows the indicators for subcluster 09A, Machine Operator. All of the completers from the subcluster were male.

**TABLE 09-2** 

|           | Cat<br>I | #<br>Placed |       | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-----------|----------|-------------|-------|----------|----------|---------------|-------------|
| TOTAL 09A | 60       | 37          | 61.7% | 24       | 64.9%    | .400          | \$3.42      |



This subcluster had indicators which were about average for all clusters for males.

Table 09-3 shows the indicators for subcluster 09B, Combination Welder, comparing CCCs, males, and the total for the subcluster. In addition, the indicators are given for a similar occupation 07L/27L, Spot Welder.

**TABLE 09-3** 

|                | .#.<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM · . | P/JTM<br>Rate | JTM<br>Wage   |
|----------------|-----------------|-------------|-------------|----------|--------------|---------------|---------------|
| CCCs 09B       | 142             | 120         | 84.5%       | 63       | 53.3%        | . 444         | \$3.75        |
| Males 09B      | 591             | 428         | 72.4        | 244      | 57.0         | . 413         | 3.63          |
| Total 09B*     | 606             | 433         | 71.5%       | 24       | 50.0%        | . 408         | <u>\$3.63</u> |
| Total 07L/27L* | 261             | 171         | 65.5%       | 83       | 48.5%        | . 318         | ,\$3.81       |

<sup>\*</sup> Istal is not the sum of the categories because they are not mutually exclusive.

For the most part, 09B shows itself to be an excellent vocation for Job Corps graduates. Centers which had completers in subcluster 09B did not have completers in subcluster 07L/27L and vice versa. One wonders if the two vocations are unlike enough to warrant separate categories.

Table 09-4 shows the indicators by center for subcluster our Sheet Metal Worker.

**TABLE 09-4** 

|       | #<br>Cat<br>·I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>J:M | P/JTM<br>Rate | JTM<br>Wage |
|-------|----------------|-------------|-------------|----------|----------|---------------|-------------|
| TOTAL | <b>44</b>      | 28          | 63.6%       | 8        | •28.6%   | .181          | \$2.91      |

Although the placement range for subcluster O9C is about average, the JTM rate at 28.6% is very low as is the JTM wage.

and the state of t

Table 09-5 shows the indicators for subcluster 09D, Furniture Upholsterer.

**TABLE 09-5** 

| `         | #<br>Cat<br>I | ≈#<br>Placed | %<br>Placed | S. J.TM | JTM , | P/JTM<br>Rate | JTM<br>Wage |
|-----------|---------------|--------------|-------------|---------|-------|---------------|-------------|
| TOTAL 09D | 51            | 39           | 76.5%       | 25      | 64.1% | .490          | \$2.25      |

Table 09-6 shows the indicators for subcluster 09E, Electronics Assembler, by male and female.

**TABLE 09-6** 

| ,              |    | #<br>Cat<br>I | #<br>Placed            |     | %<br>Placed   | #<br>JTM | %<br>JTM      | P/JTM<br>Rate | JTM<br>Wage    |
|----------------|----|---------------|------------------------|-----|---------------|----------|---------------|---------------|----------------|
| MALE<br>FEMALE |    | 98<br>42      | 62<br>23               | • , | 63.3%<br>54.8 | 41       | 66.1%<br>26.1 | .418<br>.143  | \$3.24<br>2.35 |
| TOTAL 09E      | F. | 140           | <b>85</b> <sup>-</sup> |     | 60.7%         | 47       | 55.3%         | .336          | \$3.13         |

Although the indicators for males are close to average, the indicators for females are very low.

Table 09-7 shows the indicators for subcluster 09F, Offset Printer.

TABLE 09-7

|                 | ′, | #<br>Cat<br>I | #<br>Placed | %<br>Placed   | #<br>JTM          | %<br>JTM      | P/JTM<br>Rate | JTM<br>Wage    |
|-----------------|----|---------------|-------------|---------------|-------------------|---------------|---------------|----------------|
| MALE<br>FEMALES |    | 65<br>127     | 35<br>71    | 53.8%<br>55.9 | 11<br>, <u>24</u> | 31.4%<br>33.8 | .69<br>.189   | \$3.36<br>2.76 |
| TOTAL 09F       |    | 192           | 106         | 55.2%         | 35                | 33.0%         | .182          | \$2.95         |

With the exception of the hourly wage for males (\$3.36 as compared to \$2.76 for females), the indicators for the subclusters are very low.

#### CLUSTER 10 - TRANSPORTATION

The 93 Category I terminees from the cluster (64 men and 29 women) represented only 0.8 percent of Category I terminees reported during FY 1977. These 93 completers were 31.5 percent of the 293 terminees of all categories from the cluster reported during the year.

Three subclusters were active in the cluster during the year.

Table 19-1 shows the Category I indicators for each of these subclusters, the cluster as a whole, and all clusters.

TABLE 10-1

|  | Cat      | #<br>Placed | %<br>Placed   | ·#<br>JTM            | %<br>JTM      | P/JTM<br>Rate | JTM<br>Wage    | • |
|--|----------|-------------|---------------|----------------------|---------------|---------------|----------------|---|
| 10A Truck Driver<br>10B Warehouseman<br>10C Forklift | 23<br>50 | 14<br>30    | 60.9%<br>60.0 | 3<br>19              | 21.4%<br>63.3 | .130<br>.380  | \$4.67<br>3.04 | - |
| Operator<br>Cluster 10 Total                         | 17<br>92 | 17<br>62    | 100.0<br>66.7 | <sup>°</sup> 4<br>31 | 23.5<br>50.0  | .235<br>.333  | 2.93<br>3.16   |   |
| All Clusters   | 11,364   | 7,281       | 64.1%         | 4,480                | 61.5%         | .394          | \$3.40         |   |

Table 10-2 shows the indicators for the graduates of subcluster 10A. While the placement rate is near average, the JTM rate is very low.

Table 10-3 compares the male graduates of subcluster 10B, Warehouseman, with the female graduates of the subcluster. The striking comparison is in JTM Wage: \$3.42 per hour for males and \$2.69 per hour for females.

# TABLE 10-2

|                  | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------------|---------------|-------------|-------------|----------|----------|---------------|-------------|
| 10A Truck Driver | 23            | 14          | 60.9%       | 3        | 27,4%    | .130          | ,\$4.67     |
| <del></del>      |               |             |             |          |          | <u> </u>      | 8.1         |

### TABLE 10-3

| ,                            | #<br>Cat<br>I   | #<br>Placed      | %<br>Placed   | #<br>JT <u>M</u> | % .<br>JTM    | P/JTM<br>Rate       | JTM .<br>Wage  |
|------------------------------|-----------------|------------------|---------------|------------------|---------------|---------------------|----------------|
| 10B Warehouseman .<br>Female | 29              | 17               | 58.6%         | 10               | 58.8%         | .345                | \$2.69         |
| Male<br>TOTAL                | <u>2T</u><br>50 | <u>13.</u><br>30 | 61.9<br>60.0% | <u>9</u><br>19   | 69.2<br>63.3% | <u>.428</u><br>.380 | 3.42<br>\$3.04 |

## TABLE 10-4

|                          | Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|--------------------------|----------|-------------|-------------|----------|----------|---------------|-------------|
| 10C Forklift<br>Operator |          |             | 4           |          |          |               |             |
| TOTAL                    | 17       | 17          | 100.0%      | . 4      | 25.0%    | .235          | \$2.93      |



#### CLUSTER 11 - HEALTH OCCUPATIONS

The 1,262 Category I terminees from the cluster represented 11.1% of all Category I terminations reported during FY 1977. The 103 male Category I terminees were 1.3% of all male completers reported during the year. The 1,159 female Category I terminees represented 35.3% of all female completers reported during the year. Cluster 11 produced the second largest number of female completers (exceeded only by Cluster 02, Clerical/Sales, which had 1,320 female completers). The overall completion rate for the cluster was 42.7% (42.4% for men and 42.7% for women).

Table 11-1 displays a comparison of the indicators for the cluster with the indicators for all clusters.

**TABLE 11-1** 

|                            | · #<br>Cat<br>I | #<br>Placed           | %<br>Placed    | #<br>JTM | %<br>JTM       | P/JTM<br>Rate | JTM<br>Wage      |
|----------------------------|-----------------|-----------------------|----------------|----------|----------------|---------------|------------------|
| Cluster 11<br>All Clusters | 1,262<br>11,364 | 721<br>7 <b>,</b> 281 | 57.1%<br>64.1% |          | 69.1%<br>61:5% |               | \$2.59<br>\$3.40 |

Table 11-1 shows that while the percent placed is seven percentage points lower for Cluster 11, the %JTM is 7.6 percentage points higher, netting out to a P/JTM rate equal to the average for all clusters.

The major difference is that the JTM wage is \$0.81 an hour lower for Cluster 11 than it is for all clusters.



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Table 11-2 shows the indicators for Cluster 11 males as compared to all clusters.

TABLE 11-2

|                  | #<br>Cat<br>I | .#<br>Placed | %<br>Placed | # ·<br>JTM | y<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------------|---------------|--------------|-------------|------------|----------|---------------|-------------|
| Cluster 11 (M)   | 103           | 63           | 61.2%       | 45         | 71.4%    |               | \$2.81      |
| All Clusters (M) | 8,078         | 5,453        | 67.5%       | 32,        | 60.3%    |               | \$3.57      |

As was the case in table 11-1, table 11-2 shows a lower % placed for Cluster 11 and a much higher %JTM (11.1 percentage points). The JTM wage, however, is \$0.76 an hour less than for all male completers.

Table 11-3 shows the indicators for Cluster 11 females as compared to both total Category I females and all Category I females other than those from Cluster 11.

TABLE 11-3

|   | #<br>Cat<br>I  | #<br>Placed.     | %<br>!Placed   | :· #.<br>JTM | %<br>JTM       | P/JTM<br>Rate | JTH Wage                      |
|---|----------------|------------------|----------------|--------------|----------------|---------------|-------------------------------|
| Cluster 11 (F)                                | 1,159          | 658 .            | 56.8%          | 453          | 68.8%          | .391          | \$2.57                        |
| All Other<br>Clusters (F)<br>All Clusters (F) | 2,127<br>3,286 | 1,170<br>- 1,828 | 55.1%<br>55.6% | 741<br>1,194 | 63.3%<br>65.3% | .348          | \$3.13 <sup>/</sup><br>\$2.92 |

Thus, table 11-3 shows that the % placed and %JTM rates are higher than for all other clusters; the JTM wage is \$0.56 an hour less than for all other clusters.

The single major subcluster in Cluster 11 for both men and women is 11A, Nurse's Assistant. This subcluster produced 79.1% of all completers from the cluster reported in FY 1977. Table 11-4 shows a comparison of the indicators for subcluster 11A with the indicators for all other subclusters in Cluster 11 and with the cluster totals.

TABLE-11-4

| · · · · · · · · · · · · · · · · · · · | #<br>Cat     | #<br>Placed  | %<br>Placed  | #<br>OTM   | .%<br>JTM    | P/JTM<br>Rate | JTM<br>Wage  |
|---------------------------------------|--------------|--------------|--------------|------------|--------------|---------------|--------------|
| 11A (M)<br>11A (F)                    | . 78         | 43           | 55.1%        | 26         | 60.5%        | .333          | \$2.62       |
| (T), MIT                              | 920 /<br>998 | · 527<br>570 | 57.3<br>57.1 | 348<br>374 | 66.0<br>65.6 | .378<br>.375  | 2.50<br>2.51 |
| All Other Sub-<br>clusters (T)        | 264          |              | 57.2%        | 124        | 82.1%        | .470          | \$2.83       |
| Cluster II (T)                        | 1,262        | 721          | 57.1%        | 498        | 69.1%        | .395          | \$2.59       |

Table 11-4 shows that the % placed for the other subclusters is about the same as for subcluster 11A, but that the %JTM is much higher than that of the other subclusters (82.1% vs 65.6%), as is the JTM wage (\$2.83 vs \$2.51). Even so, the JTM wage is low in comparison with other Job Corps occupations.

Of all the occupations offered in Cluster 11, three stand out as having significantly higher indicators than other subclusters, 11B Dental Assistant, 11C Licensed Practical Nurse, and 11F EKG Technician. Table 11-5 shows the indicators for these subclusters.

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TABLE 11-5

|           | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-----------|---------------|-------------|-------------|----------|----------|---------------|-------------|
| 11B (T)   | 46            | 32          | 69.6%       | 24       | 75.0%    | .522          | \$3.20      |
| 11C (T) 3 | 30            | 27          | 90.0        | 16       | 59.3     | .533          | 3.74        |
| 11F (T)   | 18            | 13          | 72.2%       | 7        | 53.9%    | .389          | \$3.33      |



#### F. AN ANALYSIS OF CENTER VARIATIONS WITHIN VOCATIONAL OFFERINGS

This section discusses center variations within vocational offerings. In addition, overall rankings for centers are displaced. These rankings are a composite of four basic indicators used throughout this study, i.e., % Category I, % Placed, % JTM, and JTM Wage. These indicators are admittedly arbitrary as are the equal weighting of the indicators in determining the ranking. No implications are made as to the quality of the centers, and none should be inferred. Too many variables are involved, many of which are beyond the control of center management.

Los Angeles is the top rated center for both males and females, while Whitney Young is the lowest rated for males and Detroit is the lowest rated for females. For the record, Trapper Creek is the lowest ranked CCC, while Columbia Basin is the highest ranked CCC and third among all centers with significant male enrollments. For both male and female center rankings, centers with only a few graduates of one sex are excluded from the rankings for that sex.

A perusal of center rankings will yie' much to the reader; for example, the extremely low completion rate (% Category I) for women at Gary is worthy of note and concern. Less than nine percent of all women at Gary were graduates; this is by far the lowest completion rate for either sex at any center. (However, preliminary FY 1978 data show that the completion rate for women at Gary has improved dramatically.)

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Also worthy of note is the relatively low performance of graduates of the "big four": Breckinridge, Atterbury, Clearfield, and Gary. Of these four giant centers, only Gary has relatively good indicators. Even Clearfield which is often cited as one of the best Job Corps centers, at least in ambiance, ranks only 41st among 50 male centers. Gary, which has had exactly the opposite reputation, ranks 32d among male centers. So much for ambiance.

One of the hot debates about Job Corps is whether the Job Corps on-center training is the ultimate in vocational training for its clientele. This study is inconclusive on this point. Both Los Angeles and San Jose purchase vocational training from other sources and are highly ranked. However, many other centers, notably CCCs, are highly ranked and perform most training on center.

The first two tables which follow show the rankings for each indicator and overall for males and females by center. Following these tables are discussions of center variations for major vocational clusters and major subclusters.



### CENTER RANKINGS FOR MALES FOR EACH INDICATOR AND OVERALL

(Displayed in Overall Rank Order)

| CENTER                | %<br>CAT I | RANK | %<br>PLACED | RANK | %<br>JTM | RANK       | JTM<br>WAGE | RANK | COMPOSITE<br>RANK |
|-----------------------|------------|------|-------------|------|----------|------------|-------------|------|-------------------|
| Los Angeles           | 49.2%      | 9    | 93.3%       | 2    | 85.7%    | 1          | \$5.80      | 1    | 1                 |
| Keystone              | 47.1       | 11   | 81.3        | 10   | 69.2     | 14         | 4.43        |      | 2                 |
| Columbia Basin CCC    | 51.9       | 6    | 77.6        |      | 67.8     | 18         | 4.27        | 10   | 3                 |
| Treasure Lake CCC     | 38.0       | 24   | 87.4        |      | .82.2    | 5 -        | 4.19        | 15   | 4                 |
| San Jose              | 74.4       | i    | 78.7        | 11   | 81.3     | 6          | 3.30        | 37 · |                   |
| Wolf Creek CCC        | 53.0       | 5    | 81.8        |      | 67.8     | 18         | 3.93        | 24   | 5<br>6            |
| Ouachita CCC          | 27.1       | 59   | 90.0        | 5    | 69.4     | 13         | 4.28        | 9    | 7                 |
| Arecibo               | 44.6       | 13   | 92.3        | 3    | 83.3     | 3          | 2.19        | 49   | 8                 |
| . Flatwoods CCC       | 34.5       | 27   | 91.2        | 4    | 68.7     | 15         | 3.94        |      | 9                 |
| Weber Basin CCC       | 33.6       | 29   | 71.7        | 24   | 75.9     | 8          | 4.39        | 8    | 9                 |
| Golconda CCC          | 30.1       | 31   | 73.6        | ī9   | 83.6     | ž          | 4.09        | 20   | 11                |
| Tongue Point          | 23.8       | 42   | 76.7        | 14   | 72.7     | 10         | 4.61        | 6    | ii                |
| Excelsior Springs     | 26.8       | 40   | 95.0        | , j  | 66.7     | 21         | 4.25        | 11   | 13                |
| Blackwell CCC         | 37.2       | .25  | 60.6        | 42   | 83.3     | 3          | 4.87        | 3    | 13                |
| Timber Lake CCC       | 38.5       | 23   | 72.6        | 20   | 65.3     | 27         | 4.65        | 4    | 15.               |
| Curlew CCC            | 41.3       | 20   | 75.4        | 17   | 67.3     | 20         | 4.13        | 18   | 16                |
| Angell CCC            | 49.7       | 8    | 69.2        | 29   | 58.1     | 33         | 4.25        | ii   | 17                |
| Boxelder CCC          | 28.1       | 36   | 75.9        | 15   | 75.3     | 9          | 3.97        | 21   | 17                |
| Cass CCC              | 34.1       | 28   | 82.1        | 8    | 71:7     | 11         | 3.33        | 36   | 3.0               |
| Fort Simcoe CCC       | 49.1       | 10   | 59.1        | 43   | 64.3     | 29         | 4.89        | . 2  | 20                |
| Portland              | 45.3       | 12   | 70.7        | 27   | 65.9     | 24         | 3.74        | 31   | ິ 21              |
| Collbran CCC          | 22.1       | 46   | 74.7        | 18   | 67.9     | 17         | 4.23        | 13   | 22                |
| Marsing CCC           | 41.8       | 19   | 71.6        | 22   | 52.8     | 41         | 4.19        | 15   | 23                |
| Woodstock             | 22.9       | · 43 | 70.8        | 26   | 76.5     | 7          | 3.93        | 24   | 24                |
| Mingo CCC             | 29.8       | 33   | 69.2        | 29 ` | 68.5     | 16         | 3.96        | · 22 | 24                |
| Jacobs Creek CCC      | 41.2       | 21   | 68.2        | 32   | 66.7     | 21         | 4.18        | 17   | 26                |
| Great Onyx CCC        | 51.3       | 7    | 64.1        | _ 37 | 60.4     | 32         | 3.87        | 27   | 27                |
| Anaconda CCC          | 42.8       | 17   | 71.4        | 23   | 58.0     | 35         | 3.80        | 30   | 28                |
| Schenck CCC           | 28.8       | 35   | 77.0        | 13   | 65.7     | 25         | 3.48        | 33   | 29                |
| El Paso 🔩 🕒           | 61.9       | 2    | 66.4        | 34   | 65.2     | 28 -       | 2.49        | 47   | 30                |
| Phoenix               | 54.8       | 3    | 64.2        | 36   | 52.0     | 46         | 3.88        | 26   | 30                |
| Gary                  | 30.0       | 32   | 71.1        | 25   | 65.7     | 25         | 3.39        | 34   | 32                |
| Pine Ridge CCC        | 43.8       | 15   | 57.1        | 46   | 64.1     | <b>3</b> 0 | 3.87        | 27   | 33                |
| Lyndon B. Johnson CCC |            | 41   | <b>75</b> 8 | 16   | 58.0     | 35         | 3.51        | 32   | 34                |
| Oconaluftee CCC       | 44.4       | 14   | 65.0        | 35   | 53.9     | 40         | 3.32        | 35°  | 34                |
| Pittsburgh .          | 13.9       | 50∖  | 85.4        | 7    | 54.3     | 39.        | 3.86        | 29   | 36                |
| Harper's Ferry CCC    | 27.2       | 38   | 68.6        | 31   | 52.1     | 45         | 4.11        | 19   | 37                |
| Pine Knot CCC         | 53.8       | 4    | 57.2        | 45   | 44.1     | 48         | 3.28        | 36   | 37                |
| Kicking Horse         | 29.0       | 34   | 52.8        | 49   | 55.4     | 38         | 4.22        | 14   | 39                |

## CENTER RANKINGS FOR MALES FOR EACH INDICATOR AND OVERALL (CONT.)

(Displayed in Overall Rank Order).

| CENTER  | CAT I   | RANK   | %<br>PLACED   | RANK   | %<br>JTM  | RANK   | JTM<br>WAGE  | RANK  | COMPOSITE<br>RANK  |
|---|---|--|---|--|---|--|--|---|--|
| Clearfield Detroit Tulsa Rio Grande Trapper Creek CCC Cincinnati Hawaii Breckinridge Atterbury New Jersey Whitney Young | 43.8<br>22.5<br>31.9<br>27.8<br>19.2<br>40.9<br>22.2<br>41.9<br>34.7<br>21.0<br>20.1% | 15<br>44<br>30<br>37<br>49<br>22<br>45<br>18<br>26<br>47<br>48 | 62.0<br>63.6<br>62.1<br>72.0<br>57.1<br>67.1<br>69.4<br>61.1<br>53.0<br>57.5<br>42.4% | 40<br>38<br>39<br>21<br>46<br>33<br>28<br>41<br>47<br>44<br>50 | 52.8<br>71.4<br>66.7<br>61.1<br>52.8<br>52.6<br>58.1<br>44.0<br>38.1<br>55.6<br>46.4% | 41<br>12<br>21<br>31<br>41<br>46<br>33<br>49<br>50<br>37 | 3.18<br>3.14<br>2.87<br>1.88<br>4.64<br>3.02<br>3.16<br>3.12<br>3.22<br>3.24<br>\$3.13 | 41<br>44<br>48<br>50<br>5<br>46<br>43<br>45<br>40<br>37<br>41 | 40<br>41<br>41<br>43<br>44<br>45<br>46<br>47<br>48<br>49 |



#### CENTER RANKINGS FOR FEMALES FOR EACH INDICATOR AND OVERALL

(Displayed in Overall Rank Order)

|                    |              |        |        |            |       | _ •   |        |        | _          |
|--------------------|--------------|--------|--------|------------|-------|-------|--------|--------|------------|
| OFNED              | <del>%</del> | 0.8444 | %      | D 8 4 11 1 | % .   | 24444 | JTM    | 24111  | COMPOSITE  |
| CENTER             | CAT I        | RANK   | PLACED | RANK       | MTL   | RANK  | WAGE   | RANK   | RANK       |
| ,<br>              | 61 00        | •      | 72 78  | • •        | 00 50 | r     | ÷      | •      | •          |
| Los Angeles        | 61.2%        | 2      | 73.7%  | . 2        | 82.5% |       | \$3.44 | 2<br>6 | l l        |
| \Hawa i i          | 33.9         | 16     | 75.0   | Ī          | 86.7  | 3     | 3.03   |        | 2          |
| Portland .         | 41.2         | 10     | 72.3   | 4          | 85.3  | 4     | 2.91   | 8      | 2          |
| Tongue Point       | 27.2         | 17     | 65.9   | 6          | 79.4  | 6     | 3.62   | 1      | 4          |
| Angell CCC         | 100.0        | 1      | 70.3   | 5          | 46.2  | 19    | 3.05   | 5      | 4          |
| Excelsion Springs  | 42.5         | 8      | 61.3   | 9          | 63.1  | 11    | 3.24   | 5<br>3 | 6          |
| Phoenix            | 43.2         | 7      | 58.8   | 10         | 71.4  | 7     | 2.87   | 11     | 7          |
| Charleston Charles | 40.3         | 11     | 65.3   | 7          | 62.5  | 12    | 2.97   | 7      | 8          |
| Cleveland          | 38.4         | 14     | 53.3   | 12 ^       | 70.8  | 8     | 3.08   | 4      | 9          |
| El Paso -          | 60.0         | 3      | 41.7   | 20         | 90.0  | 1     | 2.44   | 18     | 10         |
| McKinney           | 42.2         | 9      | 56.5   | 11         | 66.4  | 10    | 2.55   | 13     | 11         |
| Atlanta            | 43.6         | 6      | 73.7   | 2          | 45.5  | 20    | 2.53   | 16     | 12         |
| Gary '             | 8.8          | 21     | 47.2   | 16         | 83.2  | 2     | 2.71   | 12     | 13         |
| Keystone           | 36.4         | 15     | 50.2   | 14.        | 61.3  | 13    | 2.89   | 10     | 14         |
| Albuquerque        | 46.0         | 4      | 44.3   | 19         | 55.9  | 17    | 2.54   | 14     | 15         |
| Atterbury          | 16.9         | 20     | 52.8   | 13         | 57.1  | 16    | 2.91   | 8      | 16         |
| Breckinridge       | 44.1         | 5      | 46.6   | 17         | 42.6  | 21    | 2.44   | 18     | 17         |
| Blue Ridge         | 25.1         | 18     | 62.0   | 8          | 59.1  | 14    | 2.36   | 21     | i <i>7</i> |
| Gùthrie            | 40.0         | 12     | 45.7   | 18.        | 52.0  | 18    | 2.54   | 14     | i9 .       |
| Cincinnati         | 39.3         | 13     | 50.0   | 15         | 58.3  | 15    | 2.38   | 20     | 20         |
| Detroit            | 22.7%        | 19     | 31.8%  | 21         | 66.7% | ġ.    | \$2.48 | 17     | 21         |

#### F.1 Center Variations for Cluster 01 - Subprofessional

Table F-1-1 shows the center indicators for subcluster . 01-A draftsmen.

. TABLE F-1-1

01-A. Draftsman P/JTM JTM JTM Rate Wage Placed JTM Cat I P1aced 0% -% Albuquerque (F) 0 2.91 20.0 .077 38.5 3 15 Guthrie (F) 39 100.0 Guthrie (M) 3.50 .714 85.7 83.3 San Jose (M) 7 6 16.7 Breckinridge (F) 6 21.4 Breckinridge (M) 14 .117 \$3.28 38.2% 30.8% 26 68 TOTAL

Thus, only San Jose has respectable indicators. Breckinridge, with only 20% placement and no job training matches, had the worst indicators.

Table F-1-2 shows the indicators for subcluster O1-X, Others.

Note that all X subclusters for all occupations are undefined (equivalent to "NEC" in the DOT). A given X subcluster represents different occupations for different centers.

- TABLE F-1-2
-1-X, Others

|                        | Cat I | . #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------------------|-------|---------------|-------------|----------|----------|---------------|-------------|
| Golconda               | 1     | , 0           | . 0%        | -        | -%       | -             | \$ -        |
| LA (M)<br>San Jose (M) | 1     | • 1           | 100.0       | ī        | 100.0    | 1.000         | 4.00        |
| Clearfield (M)         | 46    | 24            | 52.2        | 6        | 25.0     | .130          | 3.02        |
| TOTAL                  | 49    | · 26 ª        | 53.1%       | 7        | 29.6%    | •143          | \$3.23      |

Ninety percent of the activity in the subclusters is at Clearfield. The indicators for Clearfield graduates, however, are well below average in all categories.

#### F.2 Center Variations for Cluster 02/22 - Clerical/Sales

Table F-2-1 shows an exception report for males in Cluster 02/22. An exception report is a listing of centers above and below certain arbitrary limits for an indicator. Table F-2-2 shows the exception report for the cluster for females.



## TABLE F-2-1

| Centers at or above 80% Placed | /e<br>                        | Centers at or abov<br>80% JTM Rate | e<br><del>-</del> |
|--------------------------------|-------------------------------|------------------------------------|-------------------|
| Blackwell                      | 100.0%                        | Blackwell                          | 100.0%            |
| -Boxelder                      | 100.0                         | Cleveland                          | 80.0              |
| Anaconda                       | 85.7                          | Excelsior Springs                  |                   |
| Collbran                       | 100.0                         | Los Angeles                        | 86.4              |
| Wolf Creek                     | 100.0                         | Woodstock                          | 100.0             |
| Cleveland                      | 100.0                         | Portland                           | 100.0             |
| Excelsion Springs              | 94.7                          | Atterbury                          | 82.4              |
| Los Angeles                    | 91.7                          | Gary                               | 80.0              |
| Woodstock                      | 100.0                         | Charleston                         | 100.0%            |
| Phoenix                        | 87.5                          |                                    |                   |
| Charleston                     | 100.0%                        | •                                  | ř                 |
| Centers at or belo             | <del>~~~~,</del><br>₩         | Centers at or belo                 | w                 |
| 60% Placed                     | <u> </u>                      | 60% JTM Rate                       | _                 |
| . Pine Ridge                   | 45.4%                         | Pine Ridge                         | 20.0%             |
| Trapper Creek                  | 60.0                          | Boxelder                           | 0.0               |
| Weber Basin                    | 50.0                          | Anaconda                           | 50.0              |
| Curlew                         | . 57.1                        | Collbran ·                         | 0.0               |
| Kegstone                       | 0.0                           | Weber Basin                        | 50.0              |
| Albuquerque                    | 0.0                           | Curlew                             | 25.0              |
| Detroit                        | 0.0                           | Wolf Creek                         | 50.0              |
| Kicking Horse                  | 60.0                          | . Kegštone                         | 0.0               |
| Portland                       | 50.0                          | Albuquerque                        | 0.0               |
|                                |                               |                                    |                   |
| Breckinridge<br>Gary           | <b>47.</b> 8<br><b>35.</b> 7% | Detroit<br>Cincinnati              | 0.0<br>16.7%      |

TABLE F-2-2

| Centers at or about 80% Placed   | <del>~~</del><br>oye   | Centers at or abov<br>80% JTM Rate  | re .   |
|--|--|---|--|
| El Paso<br>Tulsa<br>Šan Jose<br>Hawaii   | 100.0%<br>100.0<br>100.0<br>84.6%  | Los Angeles<br>El Paso<br>Tulsa<br>San Jose<br>Hawaii<br>Portland<br>Gary | 85.1%<br>100.0<br>100.0<br>100.0<br>100.0<br>83.3<br>81.8% |
| Centers at or be   | OW .   | Centers at or belo<br>60% JTM Rate  |  |
| Keystone Charleston Albuquerque Guthrie Atlanta Detroit Cincinnati Phoenix Breckinridge Gary | 50.0%<br>50.0<br>42.9<br>36.0<br>50.9<br>18.2<br>40.0<br>57.1<br>40.4<br>52.4% | Blue Ridge<br>Albuquerque<br>Excelsior Springs<br>Detroit<br>Breckinridge | 55.9%<br>,58.0<br>56.4<br>.25.0<br>.23.8%                  |

Among the subclusters, the high JTM Wage for Los Angeles graduates in subcluster 02A/22A, Clerk Typist, is worthy of note. Also worthy of note is the very high indicators at Excelsior Springs for subcluster U2D/22D, Keypunch Operator (100% Placed, 82.4 JTM Rate, and \$5.53 JTM Wage).

#### F.3 <u>Center Variations for Cluster 03 - Service Occupations</u>

Table F-3-1 shows an exception report for the major male subcluster, O3B, Custodial Maintenance.

| Centers at or<br>80% Placed   | above  | Centers at or above 80% JTM Rate   | /e ·   |
|---|--|--|--|
| LBJ Golconda Cass Trapper Creek Timber Lake Curlew Wolf Creek Marsing Woodstock Whitney Young   | . 80.0   | Blackwell<br>Boxelder<br>Anaconda<br>San Jose  | 100.0%<br>100.0<br>100.0<br>83.3%  |
| Centers at or 60% Placed  | below  | Centers at or belomber 60% JTM Rate  | OW ,   |
| Harpers.Ferry Pine Knot Schenck Great Onyx Blackwell Pine Ridge Anaconda Collbran Weber Basin Fort Simcoe Albuquerque Tongue Point Kicking Horse Breckinridge Atterbury | 35.0<br>24.0<br>50.0<br>28.6<br>33.3<br>33.3<br>60.0<br>54.0<br>25.0<br>40.0<br>50.0 | Harpers Férry Pine Knot LBJ Schenck Jacobs Creek Great Onyx Oconaluftee Golconda Cass Treasure Lake Ouachita Pine Ridge Trapper Creek Weber Basin Timber Lake Curlew Wolf Creek Fort Simcoe Columbia Basin All Guerque Tongue Point Woodstock Whitney Young Cincinnati Kicking Horse Hawaii Breckinridge Atterbury Gary Clearfield | 50.0% 16.7 25.0 16.7 50.0 33.3 50.0 25.0 20.0 33.3 50.0 42.9 31.3 50.0 42.9 0.0 33.3 50.0 42.9 0.0 41.4 44.4 36.7% |

- Nearly one half of the 634 graduates of subcluster 033 were from Atterbury and Clearfield. Table F-3-2 shows the indicators for these centers.

TABLE F-3-2

|                         | #          | #        | %              | #        | %,          | P/JTM | JTM              |
|-------------------------|------------|----------|----------------|----------|-------------|-------|------------------|
|                         | Cat Ţ      | Placed   | Placed         | JTM      | JTM         | Rate  | Wage             |
| Atterbury<br>Clearfield | 129<br>157 | 70<br>98 | 54.3%<br>62.4% | 29<br>36 | 41.4% 36.7% |       | \$2.87<br>\$2.86 |

Table F-3-3 shows the center variation for the major female occupation within the cluster, O3K, Nursery School Teacher.

TABLE F-3-3
03-K, Teacner, Nursery School (Female)

| •                | #<br>Cat I | #<br>Placed | %<br>Placed | #<br>JTM   | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------------|------------|-------------|-------------|------------|----------|---------------|-------------|
| 738 Cleveland    | 1          | ì           | 100.0%      | _          | _        | -             | \$ -        |
| 709 Albuquerque  | 1          | 1           | 100.0       | -          | -        | ••            | -           |
| 715 Guthrie      | 39         | 19          | 48.7        | 6          | 31.6     | .154          | 2.25        |
| 702 LA           | 2          | 2           | 100.0       | 1          | 50.0     | .500          | 2.70        |
| 717 Tongue Point | : 3        | . 0         | 0.0         | <b>(</b> # | -        | -             | -           |
| TOTAL            | 46         | 23          | 50.0%       | 7          | 30.4%    | .152          | \$2.31      |

#### F.4 Center Variations for Cluster 04 - Forestry and Farming

Although several contract centers had Category I terminations in subcluster 04-B, the bulk of the terminees was from Breckinridge and Portland. Table F-4-1 shows the comparison.

TABLE F-4-1

|              | # Cat I | #<br>Placed | %<br>Placed | #<br>JTM | %.<br>JT₩ | P/JTM.<br>Rate | JTM<br>Wage |   |
|--------------|---------|-------------|-------------|----------|-----------|----------------|-------------|---|
| Breckinridge | 55      | 24          | 43.6%       | 6        | 25.0%     | .108           | \$2.67      | • |
| Portland     | 20      | 16          | 80:0%       | 9        | 56.0%     | .450           | \$2.53      |   |

The following comparison of performance for subcluster 04-C shows that with the exception of Kicking Horse, the performance indicators are above average.

TABLE F-4-2

| ,             | # .<br>Cat I | #<br>Placed | g<br>Placed | ∄°<br>JTM | ్లో<br>JTM | P/JTM:<br>Rate | JTM '<br>Wage |   |
|---------------|--------------|-------------|-------------|-----------|------------|----------------|---------------|---|
| Anaconda (M)  | 1            | 1           | 100.0%      | 0         | 0%         | 0              | \$ 0          |   |
| Curlew (M)    | 15           | 13          | 76.9        | 10        | 76.9       | . 566          | 3.50          |   |
| Angell (M)    | . 2 <b>6</b> | 21          | 61.9        | 1,3       | 61.9       | .500           | 3.20          | • |
| Angell (F)    | 15           | 14          | 93.3        | 6         | 42.9       | .400           | 4.06          |   |
| Wolf Creek    | 66           | 58          | 69.0        | 40        | 69.0       | .606           | 3.30          |   |
| Kicking Horse |              | 5           | 40.0%       | 2         | 40.0%      | .181           | \$2.93        |   |

### F.5 Center Variations for Cluster 05/25 - Food Service

Table F-5-1 shows an exception report for males for the cluster while table F-5-2 shows an exception report for females.

| Centers   | and                          |       | Centers           | ,                 |  |  |
|---|------------------------------|-------|-------------------|-------------------|--|--|
| Below 60% Pla   | cea                          |       | Above 80% Plac    | aced              |  |  |
| Pine Knot   | 46.7                         | ,     | Flatwoods         | 100.0             |  |  |
| Blackwell   | 36.4                         | •     | LBJ               | 85.7              |  |  |
| Golconda  | 33.3                         | •     | Jacobs Creek      | 87.5              |  |  |
| Pine Ridge  | 40.0                         |       | Ouachita          | 100.0             |  |  |
| New Jersey  | 41.7                         |       | Treasure Lake     | <sup>-</sup> 93.8 |  |  |
| Whitney Young   | 28.6                         | ,•    | Collbran          | 100.0             |  |  |
| Kicking Horse   | 50.0                         | • • • | Wolf Creek        | 82.4              |  |  |
| San Jose  | 40.0                         |       | Keystône          | 100.0             |  |  |
| Atterbury   | 44.8                         | •     | Excelsion Springs | 88.9              |  |  |
| Gary  | 59.5                         |       | Tongue Point      | 100.0             |  |  |
|   | , 0,000                      |       | Woodstock         | 100.0             |  |  |
| · ·   | ٠                            |       | San Jose          | 81.3              |  |  |
| · ' · · · · · · · · · · · · · · · · · ·   | . ,                          |       | ·Santa Rosa       | 86.7              |  |  |
| •   |                              |       | · Janea Nosa      | .00.1             |  |  |
| Centers   |                              |       | Centers           |                   |  |  |
| Below 60% JT  | <u>1 ``</u> .                | •     | Above 80% JTM     | <u>.·</u>         |  |  |
| Fiatwoods   | 41.7                         |       | Golconda          | 100.0             |  |  |
| Pine Knot   | 57.1                         | ·     | Mingo             |                   |  |  |
| Jacobs Creek  | 42.9                         |       | Tongue Point      | 90.9              |  |  |
| Blackwell   | 50.0                         |       | Woodstock         | 100.0             |  |  |
| Cassadaga   | 50.0                         |       | Portland          | 100.0             |  |  |
| Quachita  | 55,6                         | -     | Santa Rosa        |                   |  |  |
|   | 00,0                         |       | Salica NUSA       | 84.6              |  |  |
| Trapper Creek   | 33.3                         |       | •                 |                   |  |  |
| Trapper Creek<br>Anaconda   | 33.3<br>33.3                 |       |                   |                   |  |  |
| Anaconda  | 33.3                         |       |                   |                   |  |  |
| Anaconda<br>Columbia Basin  |                              |       |                   | •                 |  |  |
| Anaconda<br>Columbia Basin<br>Excelsior   | 33.3<br>53.6                 |       |                   | -                 |  |  |
| Anaconda<br>Columbia Basin<br>Excelsior<br>Springs                                | 33.3<br>53.6<br>50.0         |       |                   | -                 |  |  |
| Anaconda<br>Columbia Basin<br>Excelsior<br>Springs<br>Whitney Young               | 33.3<br>53.6<br>50.0<br>50.0 |       |                   | ٠                 |  |  |
| Anaconda<br>Columbia Basin<br>Excelsior<br>Springs<br>Whitney Young<br>Cincinnati | 33.3<br>53.6<br>50.0<br>44.4 |       |                   | -                 |  |  |
| Anaconda<br>Columbia Basin<br>Excelsior<br>Springs                                | 33.3<br>53.6<br>50.0<br>50.0 | ·     |                   | -                 |  |  |



| Centers<br>Below 60% Placed   | _  |                                    | nters<br>80% Placed | <u>i</u>   |
|---|--|------------------------------------|---------------------|--|
| Charleston 45 Keystone Cleveland McKinney 51 Excelsior Springs 41 Tongue Point 59 Atlanta 50 El Paso 40 Hawaii 45 | 7.1<br>5.0<br>0<br>0<br>1.6<br>1.9<br>9.1<br>0.0<br>0.0<br>1.7 | Portland<br>Santa Ros<br>Los Angel | a `                 | 100.0<br>100.0<br>85.7                                   |
| Cincinnati 5  | 0<br>0<br>5.6<br>0.0<br>7.1<br>0.0                             |                                    | sa<br>que           | 92.3<br>100.0<br>100.0<br>100.0<br>100.0<br>83.3<br>83.3 |

Table F=5-3 shows an exception report for subcluster 05B/25B, Cook, for males while table F=5-4 shows an exception report for females.



| Centers<br>Below 60% Place   | ed   | Centers<br>Above 80% Pla   | cced   |
|--|--|--|--|
| Blackwell<br>Golconda<br>Pine Ridge<br>New Jersey<br>Cincinnati<br>Kicking Horse<br>Breckinridge<br>Atterbury<br>Gary  | 36.4<br>33.3<br>40.0<br>41.7<br>0<br>45.5<br>59.6<br>41.9<br>55.3  | Flatwoods Jacobs Creek Ouachita Treasure Lake Wolf Creek Woodstock San Jose Santa Rosa | 100.0<br>87.5<br>100.0<br>93.3<br>85.7<br>100.0<br>100.0 |
| Centers<br>Below 60% JTM   |  | Centers<br>Above 80% JT  | M  |
| Flatwoods LBJ Jacobs Creek Great Onyx Oconoluftee Blackwell Cassadaga Ouachita   | 41.7<br>33.3<br>14.3<br>42.9<br>50.0<br>25.0<br>25.0   | Golconda<br>Woodstock<br>San Jose  | 100.0<br>10^.0<br>100.0                                  |
| Trapper Creek Anaconda Collbran Timber Lake Curlew Marsing Columbia Basin Cincinnati El Paso Kicking Horse Hawaii Portland Breckinridge Atterbury Clearfield | 28.6<br>33.3<br>50.0<br>33.3<br>50.0<br>59.1<br>50.0<br>22.2<br>50.0<br>40.0<br>50.0<br>47.1<br>34.6<br>57.5 |  |  |

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TABLE F-5-4

| Centers<br>Below 60% Plac   | ed   | Centers<br>Above 80% P1                                 | aced                             |
|---|--|---|----------------------------------|
| Blackwel:<br>Golconda<br>Angell<br>Atlanta<br>El Paso<br>Hawaii<br>Breckinridge | 36.4<br>33.3<br>50.0<br>50.0<br>40.0<br>40.0<br>58.2 | Flatwoods<br>Jacobs Creek<br>Albuquerque<br>Los Angeles | 100.0<br>87.5<br>100.0<br>100.0  |
| Centers<br>Below 60% JTM  |  | Centers<br>Above 80% J                                  | TM ` ·                           |
| Atlanta<br>Cincinnati<br>Breckinridge<br>Atterbury<br>Albuquerque               | 0<br>28.6<br>42.9<br>25.0<br>0                       | Angell<br>Los Angeles<br>El Paso<br>Hawaii              | 100.0<br>100.0<br>100.0<br>100.0 |

Table F-5-5 shows the indicators for subcluster 05-C/25-C. Baker. Because the number of centers is small relative to the number of completers, all centers with completers will be listed.

TABLE F-5-5

| <b>,4</b>      | #<br>Cat I  | #<br>Placed | %<br>Placed | ,#<br>JTM | JTM         | P/JTM<br>Rate | JTM .<br>Wage |   |
|----------------|-------------|-------------|-------------|-----------|-------------|---------------|---------------|---|
| Pine Knot (M)  | 15          | 7           | 46.7%       | 4         | 57.1%       | .266          | \$2.22        |   |
| Angell (M)     | Ì           | 0           | 0           | -         | -           | -             | 100           |   |
| Marsing (-)    | ]           |             | - 100.0     | -         | <b>ــ</b> د | -             | -             |   |
| Tongue Point ( | T.) 3       | 3~~         | 100.0       | 2         | 66.7        | .667          | 2.88          |   |
| Portland (T)   | 8           | 7           | 87.5        | 7         | 100.0       | .875          | 2.51          |   |
| Breckinridge ( | T) 59       | 32          | 54.2        | 9         | 28.1        | .152          | 2.60          |   |
| Atterbury (T)  | <i>-</i> 73 | 36          | 49.3        | 4         | 11.1        | .055          | 2.44          | , |
| Clearfield (M) | 35          | 20          | 57.1        | 8         | 40.0        | 229           | 2.97          | ٠ |
| Santa Rosa (M) | .]          | ī           | 100.0       | •         | -           | -             | -             |   |
| Gary (T)       | 15          | 8           | 53.3        | 2         | 25.0        | .133          | 3.12          |   |
| TOTAL          | 212         | 115         | 54.3%       | 36        | 31.3%       | .169          | \$2.54        |   |

Only a little more than half of the graduates of the subcluster were placed, and less than one-third of these got jobs as bakers. Only the graduates of Tongue Point and Portland were exceptions.

# F.6 Center Variations for Cluster 06/26 - Auto and Machine Repair

Table F-6-1 is an "exception report" for the cluster for males.

TABLĖ F-6-1

| Centers Below<br>60% Placed  |   | Centers Above<br>80% Placed                                | ٠.                             |
|--|---|--|--------------------------------|
| Schenck  | 33.3%   | LBJ  | 100.0%                         |
| Mingo  | 50.0  | Cass   | :90.0                          |
| Trapper Creek  | 50.0  | - Ouachita   | 87.5                           |
| Boxelder   | 52.9  | Treasure Lake  | 100.0                          |
| Timber Lake  | 57.9  | Arecibo  | 94.6                           |
| Angell Angell  | 57.1  | Pittsburgh   | 89.5                           |
| Ft. Simcoe   | 53.8  | San Jose   | 83.3                           |
| New Jersey   | 54.8  | Flatwoods  | 100.0                          |
| Woodstock  | 50.0  | Keystone   | 100.0%                         |
| Whitney Young  | 33.3  | ,  | 1501570                        |
| Detroit  | 50.0  | •  | -                              |
| - El-Paso -  | 53.3  | •  |                                |
| Kicking Horse  | 33.3  |  |                                |
| · Phoenix  | 55.8  |  |                                |
| Atterbury  | 55.8  |  |                                |
| Tongue Point   | 2.0   |  |                                |
| Collbran .   | 0.0%  | •  |                                |
|  |   |  | _                              |
| Centers Below  | •   |  |                                |
|  |   | Centers Above  |                                |
| 60% JTM  |   | Centers Above  |                                |
| 60% JTM  | 27 20   | 90% JTM  | 0%                             |
| 60% JTM<br>Pine Knot   | 37.3%   | 90% JTM Treasure Lal                                       |                                |
| 60% JTM<br>Pine Knot<br>LBJ  | 0.0   | RO% JTM  Treasure Lal - Mingo                              | 100.0                          |
| 60% JTM Pine Knot LBJ Schenck  | 0.0   | Treasure Lal-<br>Mingo<br>Wolf Creek                       | 100.0<br>83.3 ,                |
| 60% JTM Pine Knot LBJ Schenck Jacobs-Creek   | 0.0<br>0.0<br>41.2  | 90% JTM Treasure Lal - Mingo Wolf Creek Arecibo            | 100.0<br>83.3<br>85.7          |
| 60% JTM Pine Knot LBJ Schenck Jacobs-Creek Great Onyx  | 0.0<br>0.0<br>41.2<br>33.3  | RO% JTM  Treasure Lal - Mingo Wolf Creek Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee  | 0.0<br>0.0<br>41.2<br>33.3<br>0.0   | 90% JTM Treasure Lal - Mingo Wolf Creek Arecibo            | 100.0<br>83.3<br>85.7          |
| 60% JTM  Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek   | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0  | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda  | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>49.0  | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran  | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0   | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM Pine Knot LBJ Schenck Jacobs-Greek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake  | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3   | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot  LBJ Schenck  Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell  | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>49.0<br>0.0<br>27.3<br>37.5                                 | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot  LBJ Schenck  Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell Marsing  | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3<br>37.5<br>50.0                         | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell Marsing Fort Simcce                                | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3<br>37.5<br>50.0<br>57.1                 | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell Marsing Fort Simcce Rio Grande                     | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3<br>37.5<br>50.0<br>57.1<br>50.0         | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell Marsing Fort Simcce Rio Grande Pittsburgh          | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3<br>37.5<br>50.0<br>57.1<br>50.0<br>47.1 | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| 60% JTM  Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell Marsing Fort Simcce Rio Grande Pittsburgh Ouachita | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3<br>37.5<br>50.0<br>57.1<br>50.0         | RO% JTM  Treasure Lal  Mingo Wolf Creek  Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |
| Pine Knot LBJ Schenck Jacobs-Creek Great Onyx Oconaluftee Trapper Creek Anaconda Collbran Timber Lake Angell Marsing Fort Simcce Rio Grande Pittsburgh                   | 0.0<br>0.0<br>41.2<br>33.3<br>0.0<br>6.0<br>40.0<br>0.0<br>27.3<br>37.5<br>50.0<br>57.1<br>50.0<br>47.1 | RO% JTM  Treasure Lal - Mingo Wolf Creek Arecibo Flatwoods | 100.0<br>83.3<br>85.7<br>100.0 |



## TABLE F-6-1 Continued .

| Centers Below<br>60% JTM | •                 | Centers Above '<br>80% JTM |
|--------------------------|-------------------|----------------------------|
| Woodstock                | 40.0%             | •                          |
| Whitney Young            | 0.0               |                            |
| Detroit 🔨                | 37.5              |                            |
| Cincinnati               | 58.3              |                            |
| El Paso                  | 33.3              | •                          |
| Tulsa                    | 0.0               | •                          |
| Kicking Horse            | 0.0               |                            |
| Phoenix                  | 20.8              | •                          |
| Hawaii                   | 41.2              | •                          |
| Portland                 | 58.3              |                            |
| Breckinridge a           | 37.4              |                            |
| Atterbury                | <sub>2</sub> 25.3 | •                          |
| Clearfield               | 49.6              | · ·                        |
| Tongue Point             | 0.0%              | -                          |



Table F-6-2 displays the indicators for subcluster 6A, Auto Mechanic Helper, both for the total subcluster and selected centers.

TABLE F-6-2

| •                           | #<br>Cat<br>I | #<br>Placed | %<br>Placed,           | #<br>JTM_ | %<br>JTM      | P/JTM<br>Rate  | JTM<br>Wage  |
|-----------------------------|---------------|-------------|------------------------|-----------|---------------|----------------|--------------|
| Arecibo                     | 20            | : 19        | 95 0%                  | ]4        | <i>4</i> 3.7% | .700           | \$1.95       |
| El Paso<br>Hawaii           | 21<br>20      | 14.<br>15   | 6 <b>ø.</b> 7<br>∙75.0 | 10<br>6   | 57.1°<br>40.0 | .381 \<br>.300 | 2.32         |
| Atterbury`                  | 22            | 18          | 81.8                   | 2         | 11.1          | .091           | ₹3.25        |
| Clearfield<br>Other Centers | 131<br>44     | 78<br>26    | 59.5<br>59.1           | 29<br>7   | 37.2<br>34.6  | .227<br>.205   | 3\07<br>3\26 |
| TOTAL                       | 258           | 170-        | 68.Û%                  | 68        | 40.0%         | . 264          | \$2.77       |

Thus, on balance, graduates from no centers did particularly well in this subcluster, given the low JTM wage from Arecibo. (Wages in Puerto Rico do not compare to wages in the continental U.S.)

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## Table F-6-3 displays an "exception report" for subcluster

### 06B/26B, Auto Service Repair.

TABLE F-6-3 06B/26B Males

| Centers Below<br>60% Placed   |   | Centers Above<br>80% Placed  | i<br>c   |
|---|---|--|--|
| Schenck Jacobs Creek Mingo Trapper Creek Boxelder Timber Lake Angell Wolf Creek New Jersey Woodstock Whitney Young Detroit Breckinridgo Atterbury Clearfield Kicking Horse    | 33.3%<br>58.3<br>50.0<br>50.0<br>52.9<br>57.9<br>50.0<br>53.8<br>42.9<br>33.3<br>42.9<br>59.1<br>54.0<br>0.0<br>25.0% | LBJ Oconaluftee Cass Ouachita Treasure Lake Pine Ridge Añaconda Marsing Pittsburgh Flatwoods | 100.0%<br>100.0<br>100.0<br>87.5<br>100.0<br>100.0<br>100.0<br>100.0 |
| Centers Below 60% JTM  Pine Knot LBJ Jacobs Creek Great Onyx Oconaluffee Ouachita Trapper Creek Anaconda Timber Lake Curlew Angell Marsing Ft. Simcoe Woodstock Whitney Young | 27.8%   | Centers Above 80% JTM  Mingo Wolf Creek New Jersey Flutwoods                                 | 199.9%<br>100.0<br>83.7<br>199.0%                                    |



TABLE F-6-3

06B/26B Males
Continued

| Centers Below 60% JTM  | ;  | Centers Above<br>80% JTM |  |
|--|--|--------------------------|--|
| Detroit Cincinnati Kicking Horse Phoenix Breckinridge Atterbury Clearfield | 50.0%<br>58.3<br>0.0<br>16.7<br>35.9<br>22.6<br>0.0% |                          |  |

Table:F-6-4 displays the indicators for subcluster O6E, Auto Body Repairman.

TABLE F-6-4

|                   |               |             | 23,         |              |          |               |              |
|-------------------|---------------|-------------|-------------|--------------|----------|---------------|--------------|
|                   | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM     | %<br>JTM | P/JTM<br>Rate | JTM<br>Waige |
| Arecibo .         | 17            | . 16        | 94.1%       | 14           | 87.5%    | .824          | \$1.91       |
| Rio Grande        | 14            | 10          | 71.4        | 3            | 30.0     | .214          | 1.75         |
| Portland Portland | 17 ^          | 12          | 70.6        | 7            | 58.3     | .411          | 3,71         |
| Breckinridge      | 72            | 52          | 72.2        | 23           | 40.4     | .292          | 2.79         |
| Atterbury         | 54            | 23          | 42.6        | 9            | 39.1     | .167          | 2.81         |
| Gary              | 32            | 28          | 87.5        | 18           | 64.3     | .563          | 2.85         |
| Clearfield (      | 62            | 40          | 64.5        | 22           | 55.0     | .355          | 3.25         |
| New Jersey        | 11            | 6           | 54.5        | 3            | 50.0     | .273          | 3.16         |
| Other Centers     | 11            | 8           | 72.7        | 2            | 25.0     | .181          | 3.07         |
| TOTAL             | 290           | - 195       | 67.2%       | , <b>9</b> 9 | 50.8%    | 341 -         | \$2.83       |

With the exception of Atterbury and New Jersey, all centers had average or better placement rutes; and with the exception of Arecibo and Gary all centers had below average JTM rates. It is interesting to note that

both Puerto Rico centers, Arecibo and Rio Grande, had very high placement rates, but that Arecibo had an 87.5% JTM rate while Rio Grande had a 30% JTM rate.



### F.7 <u>Center Variations for Cluster 07/27 - Construction Trades</u>

Table E-7-1 is an "exception report" showing those centers above and below certain arbitrarily established benchmarks for the cluster as a whole. It is interesting to note that a CCC like Pine Knot with its heavy involvement in union construction program has such poor indicators.

• TABLE F-7-1 07/27 Males

| Center Below<br>60% Placement Rat  | <u>e</u>   | Cen ers Above<br>80% Placement Rat   | <u>:e</u> .  |
|--|--|--|--|
| Pine Knott Trapper Creek New Jersey Whitney Young Tulsa Breckinridge Atterbury | 55.1%<br>54.5<br>56.0<br>40.5<br>50.0<br>59.5<br>55.9% | Flatwoods Schenck Cass Ouachita Treasure Lake Boxelder Timber Lake Wolf Creek Columbia Basin Arecibo Keystone Excelsior Springs Los Angeles Tongue Point Cincinnati Mississippi San Jose | 89.6%<br>80.0<br>90.0<br>85.1<br>81.6<br>80.2<br>80.8<br>94.1<br>100.0<br>100.0<br>100.0<br>100.0<br>88.9% |
| Centers Below<br>60% JTM Rate<br>Harpers Ferry<br>Pine Knott                   | 48.5%<br>•46.7   | Centers Above<br>80% JTM Rate<br>Jacobs Creek<br>Blackwell   | 80.9%<br>94.1  |
| Oconaluftee Angell Marsing New Jersey Whitney Young                            | 54.3<br>52.9<br>49.4<br>50.0<br>52.9                   | Golconda<br>Treasure Lake<br>Trapper Creek<br>Weber Basin<br>Timber Lake   | 81.5<br>91.2<br>83.3<br>85.4<br>90.4   |
| Continued-   |  | ·  | ·<br>·   |

#### TABLE F-7-1 07/27 Males Continued

| Centers Below<br>60% JTM Rate   |  | Centers Above<br>80% JTM Rate  |
|---|--|--|
| Tulsa<br>Breckinridge<br>Atterbury  | 50.0%<br>51.5<br>35.0%   | Woodstock 80.9% Detroit 81.5 Mississippi 100.0 San Jose 83.3%  |
| Centers Below<br>.400 P/JTM Rate  |  | Centers Above<br>.600 P/JTM Rate   |
| Harpers Ferry Pine Knott Oconaluftee Angell Marsing Fort Simcoe New Jersey Whitney Young Tulsa Kicking Horse Breckinridge Atterbury | .333<br>.257<br>.347<br>.359<br>.345<br>.390<br>.287<br>.214<br>.250<br>.369<br>.306<br>.196 | Flatwoods .649 Schenck .600 Blackwell .681 Ouachita .717 Treasure Lake .776 Boxelder .618 Weber Basin .672 Timber Lake .649 Columbia Basin .663 Arecibo .706 Keystone .700 Los Angeles .750 Tongue Point .647 Mississippi 1.000 Phoenix .800 San Jose .741 |

Table F-7-? is an "exception report" for males for subcluster 07A/27A, Construction Carpenter.

| Centers Below<br>60% Placement  | Rate_ |  | Centers Above<br>80% Placement Rate  |   |
|---|-------|--|--|---|
| Jacobs Creek<br>Whitney Young   |       | 31.3% 42.9%  | Flatwoods Harpers Ferry Schenck Blackwell Cass Ouachita Treasure Lake Boxelder Collbran Weber Basin Wolf Creek Columbia Basin Arecibo Woodstock Phoenix Hawaii | 100.0%<br>81.3<br>85.7<br>87.0<br>83.3<br>100.0<br>84.0<br>85.0<br>80.5<br>90.0<br>92.3<br>100.0<br>85.0<br>81.8% |
| Centers Below 60% JTM Rate  Flatwoods Harpers Ferry Pine Knot Schenck Jacobs Creek Great Onyx Oconaluftee Mingo Anaconda Marsing Rio Grande Kicking Horse Atterbury Gary Whitney Young Continued- |       | 47.4%<br>46.2<br>36.4<br>50.0<br>40.0<br>56.3<br>36.4<br>46.7<br>50.0<br>56.5<br>25.0<br>54.5<br>15.4<br>34.4<br>0.0 | Centers Above 80% JTM Rate  Blackwell Ouchita Treasure Lake Trapper Creek Weber Basin Woodstock Cincinnati   | 85.0%<br>91.2<br>90.5<br>88.9<br>88.9<br>100.(  |

## TABLE F-7-2 07A/27A Males Continued

| Centers Below .400 P/JTM Rate  |  | Centers Above<br>.600 P/JTM Rate   |  |
|--|--|--|--|
| Harpers Ferry Pine Knot Jacobs Creek Oconaluftee Pine Ridge Mingo Anaconda Marsing Rio Grande Kicking Horse Atterbury Gary Whitney Young | .375<br>.218<br>.125<br>.222<br>.375<br>.350<br>.360<br>.394<br>.167<br>.375<br>.100<br>.234 | Golconda Cass Ouachita Treasure Lake Mingo Boxelder Blackwell Weber Basin Columbia Arecibo Woodstock | .611<br>.600<br>.917<br>.750<br>.615<br>.675<br>.739<br>.800<br>.700<br>.616 |



### F.8 Center Variations for Cluster 08-Electrical Appliance Repair

Table F-8-1 shows the indicators for the major subclusters, O8A.

Air Conditioner Repair Mechanic.

TABLE F-8-1

| ] -                                     |          | <del></del> | <del></del>   |            |          |            | <del></del> , |
|---|----------|-------------|---------------|------------|----------|------------|---------------|
|   | Cat<br>I | #<br>Placed | %<br>Placed   | · #<br>JTM | %<br>JTM | P/JTM Rate | JTM<br>Wage   |
| - Wnithey Young 08A<br>Breckinridge 08A |          | 4<br>62     | 50.0%<br>64.6 | . 0<br>6   | 9.7%     | .063       | •             |
| Gary 08A<br>(Females)                   | 6<br>4   | , 4<br>2    | 66.7<br>50.0  | 1<br>0     | 25.0     | .167       | 3.00          |
| TOTAL                                   | 114      | 72          | 63.2%         | 7          | 9.7%.    | .061       | \$2.82        |

Thus, the graduates of these three centers were not very successful in obtaining work for which they were trained.

The other subcluster with a significant number of graduates was 08G, Electrician Helper. Table F-8-2 shows the indicators for the subcluster.

TABLE F-8-2

| . ,                                   | #               |             | -              |          | 27             |               | -              |
|---------------------------------------|-----------------|-------------|----------------|----------|----------------|---------------|----------------|
| · · · · · · · · · · · · · · · · · · · | Cat<br>I        | #<br>Placed | % = -          | #<br>JTM | %.<br>JTM      | P/JTM<br>Rate | JTM<br>Wage    |
| Arecibo<br>Atlanta                    | 08G 29<br>08G 1 | . 26        | 89.7%<br>100.0 | 21<br>1  | 80.8%<br>100.0 | .724<br>1.000 | \$2.45<br>3.00 |
| TOTAL                                 | • 30            | 27          | 90.0%          | 22       | 81.5%          | .733          | \$2.48         |

Thus, while the indicators are very high, the JTM wage is low reflecting the low wage structure of Puerto Rico.

#### F.9. Center Variations for Cluster 09- Industrial Production

Table E-9-1 shows the indicators for <u>subcluster 09A</u>, Machine Operator. All of the completers from the subscluster were male; the majority were from Clearfield, although Schenck, San Jose, and Gary also had completers.

· TABLE F-9-1 .

|    |                | #        |             |              |     | _     |      | , , , ,  |
|----|----------------|----------|-------------|--------------|-----|-------|------|----------|
| *  |                | Cat<br>I | #<br>Placed | 77<br>Plaćed | JTM | JTM   | Rate | JTM Wage |
| C1 | éarfield 09A ° | . 47     | 29          | 61.7%        | 19  | 65.5% | .494 | \$3.26   |
| то | TAL 09A        | 60       | 37°         | 61.7         | 24  | 64.9  | .400 | 3.42     |

Table F-9-2 shows the indicators for subcluster 09B, Combination Welder, comparing CCCs, males, Breckinridge and Gary (the two largest centers in this subcluster) and the total for the subcluster.

TABLE F-9-2

|   | Cat ·                    | #<br>'Placed             | %<br>Placed                   | #<br>JTM                | %<br>JTM                      | P/ĴTM<br>Rate                | JTM<br>Wage                    |
|---|--------------------------|--------------------------|-------------------------------|-------------------------|-------------------------------|------------------------------|--------------------------------|
|   |                          | • •                      | • • •                         |                         |                               |                              | . *                            |
| CCCs 09B<br>Males 09B<br>Breckinridge 09B<br>Gary 09B | 142<br>591<br>220<br>184 | 120<br>428<br>138<br>140 | 84.5%<br>72.4<br>62.7<br>76.1 | · 63<br>244<br>69<br>91 | 53.3%<br>57.0<br>50.0<br>65.0 | .444<br>.413<br>.314<br>.495 | \$3.75<br>3.63<br>3.58<br>3.68 |
| TOTAL 09B   | 606                      | 433 .                    | 77.5%                         | 247                     | 50.0%                         | .408                         | \$3.63                         |

For the most part, 09B shows itself to be an excellent vocation for Job Corps graduates. Breckinridge graduates are less likely to be placed in a welding job than most other 09B graduates. In addition, Pine Knot, Treasure Lake, Marsing, New Jersey, and Pittsburgh had low JTM rates.

Table F-9-3 shows the indicators for subcluster 09D, Furniture Upholsterer, by center.

TABLE F-9-3

| 1   | #<br>Cat<br>Ī        | . #<br>Placec   | %<br>Placed                    | #<br>JTM     | %<br>JTM                       | P/JTM<br>.Rate,               | JTM<br>Wage                    |
|---|----------------------|-----------------|--------------------------------|--------------|--------------------------------|-------------------------------|--------------------------------|
| Arecibo (M) -<br>Portland (M)<br>Gary (M)<br>Gary (F) | 21<br>1<br>- 26<br>3 | 19<br>18<br>. 1 | 90.5%<br>100.0<br>69.2<br>33.3 | 17<br>1<br>6 | 89.5%<br>100.0<br>33.3<br>33.3 | .810<br>1.000<br>.231<br>.333 | \$2.04<br>4.00<br>2.55<br>2.30 |
| TOTAL 09D   | 51                   | . 39            | 76.5%                          | 25           | 64.1%                          | .490                          | \$2.25                         |

The excellent % placed and %JTM of Arecibo graduates raise this subcluster to above average for these two rates and the P/JTM rate. Conversely, the low JTM wage for Arecibo lowers the wage substantially. In any event, the vocation's indicators are very low, with or without Arecibo.

## F.10 Center Variations for Cluster 10 - Transportation

Table F-10-1 displays the center by center indicators for the three subclusters making up cluster 10.

TABLE F-10-1

| <u>.</u>                                     |               |                     | •               |          |               | _                  |                |
|--|---------------|---------------------|-----------------|----------|---------------|--------------------|----------------|
|  | #<br>Cat<br>I | #<br>Placeu         | %<br>Placed     | #<br>JTM | %<br>JTM      | P/JTM<br>Rate      | JTM<br>Wage    |
| 10 A Truck Driver                            |               |                     | 66.70           | 0        | 22 20         |                    | ¢2 1E'         |
| Anaconda (M)                                 | 9<br>9        | _ <u>_ 6</u><br>5 · | 66.7%<br>55.6   | 2_       | 33.3%<br>20.0 | <u>.222</u><br>111 | \$3.15<br>7.73 |
| Fort Simcoe (M)<br>Kicking Horse (M)         | 5             | , 3                 | 60.0            | -        | -             | -                  | <b>-</b> .     |
| TOTAL  | . 23          | 14 .                | 60.9%           | . 3      | 21.4%         | .130               | \$4.67         |
|  | · _           |                     |                 |          | <del> </del>  |                    | · ·            |
| 10BgWarehoùseman<br>McKinney (F)<br>Gary (M) | 29<br>21      | 17<br>13            | 58.6%<br>61.9   | 10˚<br>9 | 58.8%<br>69.2 | .345               | \$2.69<br>3.42 |
| TOTAL  | 50            | 30                  | 61.9%           | 19       | . 63.3%       | .380               | \$3.04         |
| 10C'Forklift Operator                        |               | ٠.                  |                 | •        | •             | . *                | ,              |
| Keystone (M) Gary (M)                        | 1<br>16       | 1<br>16 ,           | 100.0%<br>100.0 | 4        | -<br>25.0%    | .250               | \$2.93         |
| TOTAL  | 17            | 17                  | 100.0%          | · 4      | 25.0%         | .235               | \$2.93         |
| •  | -             |                     |                 |          |               |                    | <u>-</u>       |

## F.11 Center Variations for Cluster 11 Health Occupations

Table F-11-1 displays ar "exception report" for women in Cluster

11. Centers with fewer than ten graduates are excluded.

TABLE F-11-1

| Centers at or Above 80% Placed   |                                | Centers at or Bel<br>60% Placed   | Below   |  |  |
|--|--------------------------------|---|---|--|--|
| None   | ·                              | Keystone<br>Blueridge   | 52.6%<br>38.5   |  |  |
| A.   |                                | Cleveland Albuquerque McKinney Guthrie Detroit El Paso Phoenix Breckinridge | 49.0<br>31.7<br>54.4<br>56.9<br>50.0<br>38.9<br>54.8<br>52.2% |  |  |
| Centers at or Above<br>80% JTM Rate<br>Los Angeles<br>El Paso<br>Detroit<br>Tongue Point | 86.5%<br>85.7<br>90.0<br>87.5% | Centers at or Belo<br>60% JTM Rate<br>Keystone<br>Albuquerque<br>Atlanta    | 56.9%<br>57.2<br>55.3%  |  |  |

Health Occupation is an unusual cluster in that the JTM Rate overall is much higher than the placement rate (68.8% compared to 56.8%). Even more striking is that this holds true for the graduates of every center.

Appendix

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#### :ÀPPFNDTX

PERFORMANCE INDICATORS BY VOCATIONAL CLUSTER/SUBCLUSTER, BY CENTER, BY SEX

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| CLUSTER 01 - SUBPROFESSIONAL              | ,  |
|---|----|
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| CLUSTER 03 - SERVICE OCCUPATIONS          |    |
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| CLUSTER 05 - FOOD SERVICE                 |    |
| CLUSTER 06 - AUTO AND MACHINE REPAIR      |    |
| CLUSTER 07 - CONSTRUCTION TRADES          |    |
| CLUSTER 08 - ELECTRICAL APPLICANCE REPAIR | *  |
| CLUSTER 09 - INDUSTRIAL PRODUCTION        |    |
| CLUSTER 10 - TRANSPORTATION               |    |
| CLUSTER 11 - HEALTH OCCUPATIONS           | \$ |

## CLUSTER 01 - SUBPROFESSIONAL (MALE)

|  | #<br>Cat   |        | 8       | #    | √ 8             | P/JTM    | JTM          |
|--|------------|--------|---------|------|-----------------|----------|--------------|
| the state of the s | <u>`I</u>  | Placed | Placed  | JTM  | JTM             | Rate     | Wage         |
|  | _          |        |         |      | -               |          |              |
| · 109 Golconda   | . , 1      | Ō      | 98      | `-   | <del>س</del> ير |          |              |
| 711 New Jersey   | .1         | . 1    | 100.0%  | 1    | 100.0%          | 1.000    | 3.00         |
| 746 Charleston   | - 1        | T.     | 100.0%  | 1    | 100.0%          |          | 3.00         |
| 766 Guthrie  | 1          | 1      | 100.0%  | ١ ــ | -               |          | . =          |
| 741- LA  | 1          | 1 -    | 100.0%  | 1    | 100.0%          | 1.000    | 3.70         |
| 854 Atlanta  | 1          | · 1 ·  | 100.0%  | _    |                 |          | <b>31,</b> 0 |
| 442 San Jose   | 7          | 6      | 85.7%   | 6    | 100.0%          | . 3 857  | 3.61         |
| 446 San Jose   | 1          | 1      | 100.0%  | . 1  | 100.08          |          | 4.00         |
| 411 Portland   | ī          | 2 O    |         | _    | 7 100.00        | 4.000    | . 4.00       |
| 907 Rodman   | <u>1</u> , | ň      | ^ ň·    | _    | _               | _        | _            |
| 906 Breckenridge   | 14         | 3 ·    | 21.4%   | _    | _ ,             | <u>-</u> | •            |
| 910 Clearfield   | 50         | 28 .   | 56.0%   | 7    | 25 00           | 140      | 2 06         |
| STO OTCOL TECTO  | 50         | 40     | , 20.UE | 1.   | 25.0%           | .140     | 3.06         |
|  |            | 18     | •       | ·    | <del></del>     |          |              |
| TOTAL  | 80         | 43     | 53.8%   | 17   | 39.5%           | .213     | 3.37         |

#### 01-A DRAFTSMAN (MALE)

| ->+   |                    | •                 |                                    |          |          |               |                |
|---|--------------------|-------------------|------------------------------------|----------|----------|---------------|----------------|
| • •   | #<br>Cat<br>I      | #<br>Placed       | %<br>Placed                        | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage    |
| 766 Guthrie<br>442 San Jose<br>446 San Jose<br>906 Breckenridge | , 6<br>, 1<br>, 14 | '1<br>5<br>1<br>3 | 100.0%<br>83.3%<br>100.0%<br>21.4% | 4 1 -    | 80.0%    | .667<br>1.000 | \$3.37<br>4.00 |
| TOTAL   | 22                 | _ 10              | 45.5%                              | ·5       | 50.0%    | . 277         | \$3.50         |

|   |     | ·         | 01-I     | 3, COMM | ERCIAL/  | RAPHIC | ARTIST | ٥,    |        |
|---|-----|-----------|----------|---------|----------|--------|--------|-------|--------|
| ì | \$  | . 0       | #<br>Cat |         | <b>.</b> |        | %      | P/JTM | JTM    |
| - |     | ,         | I        | Placed  | Placed   | ·JTM   | JTM    | Rate  | Wage   |
| , | 746 | Charlesto | n 1      | - 1     | 100.0%   | 1      | 100.0% | 1.00  | \$3.00 |

| •   | ۶<br> | · 01-         | -C; COS! | METOLOG:                  | ST (MA   | (3)      |               |             |
|---|-------|---------------|----------|---------------------------|----------|----------|---------------|-------------|
|   |       | #<br>Cat<br>I | # Placed | §<br>Placed               | #<br>JTM | *<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| 711 NJ<br>854, Atlant<br>411 Portla<br>910 Clears | and   | 1<br>1<br>1   | 0, 1     | 100%<br>100%<br>0<br>100% | 1        | 1008     | 1.000         | \$3.50-     |
| TOTAL   | `     | 4 ·           | 3        | 75%                       | · ` · 1  | 33.3%    | .250          | \$3.50      |

|                | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | ₹<br>JTM | P/JTM<br>Rate     | JTM<br>Wage  |
|----------------|---------------|-------------|-------------|----------|----------|-------------------|--------------|
|                |               |             |             |          | .,       |                   | , <i>,</i> : |
| 109 Golconda   | 1             | 0           | ٠ 0         | _        |          |                   |              |
| 741 LA         | 1             | 1           | 100.0%      | 1        | 100.0%   | 1.00              | 3.70         |
| 442 San Jose   | 1             | 1           | 100.0%      | 1        | 100.0%   | 1.00              | 4.00         |
| 910 Clearfield | 46            | 24          | 52.2%       | 6        | 25.0%    | .130 <sup>-</sup> | 3.02         |
| TOTAL .        | 49            | 26          | 53.1%       | 8        | 30.8%    | .163              | 3.23         |

| ` · | _            | C       |  |         |  |     |
|-----|--------------|---------|--|---------|--|-----|
| .∧1 | מתמווס       |         | マー・ファン・ファン・ファン・ファン・ファン・ファン・ファン・ファン・ファン・ファン | AT > 74 | ************************************** | ř   |
| 0.1 | SUBPR        | OE E DE | MUNI                                       | A.L 1   | FEMALES                                | ١.  |
|     | <del> </del> |         |  |         | _ ~                                    | , . |

| )                      | Cat         | Placed | Placed  | ‡<br>JTM         | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------------------|-------------|--------|---------|------------------|----------|---------------|-------------|
|                        | 65          | 27     | 41.5%   | 10               | 37.0%    | .154          | 2.91        |
| Significant<br>Centers |             | •      | ž       |                  |          | د .           | •           |
| Guthrie                | 41          | 15     | 36.6%   | 4                | 26.7%    | .098          | 2.94        |
| LA                     | ∵ ⁵ 5 .     | . 5    | : 60.08 | . 2              | 66.78    | .400          | 3.40        |
| Breckenridge           | . 6         | . 1    | 16.7%   | ' 0 <sup>'</sup> | . 08     | 0 ,           | . 9         |
| Atlanta                | 3           | 1      | 33.3%   | 1                | 100.0%   | .333          | 2.50        |
| Portland 🔭             | 3           | 1      | 33.0%   | 1                | 100.0%   | .333          | 2.50        |
| Significant<br>Occs    | •           |        |         | ·<br>            |          | <del></del>   | · .         |
|                        |             | · .    |         |                  |          |               |             |
| 1-A Draftsman          | 46          | 16     | 34.8%   | 3                | 18.8%    | · \ 0,65 '    | 2.91        |
| Suchrie                | <b>39</b> . | 15     | 38.5%   | ્ 3્             | 20.0%    | , Ó77         | 2.91        |
| Breckenridge           | 6.          | ۱ ۰    | 16.78   | 0.               | , 0 ·    | <b>^</b> 0    | . 0         |
| 01-C Cosmo-            | •           |        | 3       | i2               | , c,     | . •           |             |
| tologist               | 15          | . 7    | 46.7%   | <b>2</b>         | 28.6%    | .133          | 2.40        |

|             | /               |          |
|-------------|-----------------|----------|
| CLUSTER 01. | SUBPROFESSIONAL | (FEMALE) |

| <u> </u>           |              |                | <del>/-/</del> | <del></del> |                |                     |               | · ·           |
|--------------------|--------------|----------------|----------------|-------------|----------------|---------------------|---------------|---------------|
|                    |              | / # -/         | / / `          |             | 1              | المنا               | • •           |               |
| ,                  | , , , , , ,  | / Cat//        | ` #′           | · / 8 .     | ***            | _ / <b>§</b> ′      | P/J.TM*       | JTM           |
| •                  | • • /        | $\mathbf{Y}/2$ | Placed         | l/Placed    | JTM            | JTM ·               | Rate          | ·Wage         |
| 7.                 | , /          | - /            | <u> </u>       | / • • •     | • •            | 7                   | •             | •             |
| 703                | Charleston   | A              | ′ <b>1</b> ⁄   | 100.9%      | _              | <i>J</i> . <u>+</u> | • • •         | <b>~</b> `    |
|                    | Albuquerque  | 7/i //         | ζĞ             | 0,-         | , <del>-</del> | / <b>-</b>          |               | , <del></del> |
|                    | McKinney     | 7 7            | / i·           | 100.0%      |                | ·                   | _ `,          |               |
|                    | Guthrie /    | / A/i          | /15.           | 36.68       | 4              | 26.7%               | .098          | 2.94          |
|                    | LA           | · 3 /          | 7 130          | 6.78        | •              | 100.0%              | •             | 3.40          |
|                    |              | 3/             | . <u>2</u>     | 50.0%       | سيد المن       | , ±00.              | -             | 4             |
|                    | LA           | 2/             | 1 /            | 100.0%      | - 1 (g) 4      | 100.0%              | 1.000         | 2.50          |
|                    | Tongue Pt/   | 7              | Τ.             | •           | χ 1            | 100.0%              | .500          | 2.50          |
|                    | Atlanta // " | /2             | Τ/             | 50.0%       | , Т            | 100.04              | .500          | 2.30          |
| -                  | Atlanta/     | / 1            | , 0            | U           | -              | •                   | ~ -           | =             |
| ′ 405 <sup>1</sup> | Phoenix      | / 1            | 1              | :100.0%     | -              | ~ ·                 | · -           | =             |
| 407                | Phoeni/x /   | . 1            | 1.             | 100.0%      | - **           | · · · · -           | <b>-</b>      | -             |
| 415                | Portland /   | 1              | ٥ ر            | , / 0.      | <del>-</del> . | -                   | ·             |               |
| 417                | Portland /   | . 2            | 1              | 50.0%       | 1              | · 1000% ,           | .500          | 2.50          |
| /934/              | Breckenridge | 6              | 1              | 16.7%       | **             | <del>-</del> `      | -             | ~_            |
|                    | Atterbury/   | 1              | 1              | 100.0%      | .1             | 100.0%              | <b>1.000</b>  | ~3.00         |
| Ii                 | // //        | _              | . –            |             |                | · '                 |               |               |
| <del></del>        | <del></del>  | • 7            | -              | 1           |                |                     | , g           |               |
| \    .             | TOTAL        | -65            | 27             | /. 41.5%    | ĮÒ.            | 37.0%               | . 15 <b>4</b> | 2.91          |
| '. //,             | TOTAL        | γJ             |                | , 12,00     | 70 .           | \                   | : #           |               |

| •  | OT-W                | DIGIT I DUM               | (THUMBHH)    |                    |             |
|--|---------------------|---------------------------|--------------|--------------------|-------------|
| •  | # Cat # IPlaced     | Placed JT                 | %<br>M JTM   | P/JTM<br>Rate      | JTM<br>Wage |
| 709 Albuquerque<br>715 Guthrie<br>934 Breckenridge | 1 0<br>39 15<br>6 1 | 0 -<br>38.5% 3<br>16.7% - | 20.0%<br>- ; | .077               | 2.91        |
| TOTAL  | 46 16               | 34.8% 3                   | 18.8%        | · <sub>-</sub> 065 | 2.91        |

| 01-B. | COMMERCIA | L/GRAPHTC | ARTTCT | (PEMALE) |
|-------|-----------|-----------|--------|----------|
| V- 2, |           |           | UUTIOI | LECMMINI |

|               | ‡<br>Cat<br>I | # .<br>Placed | % Placed | #<br>JTM | e<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|---------------|---------------|---------------|----------|----------|----------|---------------|-------------|
| 926 Atterbury | ` 1           |               | 100.0%   | 1        | 100.0%   | 1.00          | 3.00        |

| 01-C. | COSMETOLOGIST | (FEMALE) |
|-------|---------------|----------|
| U_ U, | CODIMIONO     |          |

|           | •      | # -        | •   |             |                       |            |               |              |
|-----------|--------|------------|-----|-------------|-----------------------|------------|---------------|--------------|
|           |        | Cat<br>I   | -   | %<br>Placed | #<br>JTM <sup>.</sup> | , &<br>JTM | P/JTM<br>Rate | JTM.<br>Wage |
| 7039 Char | leston | 1          | 1.  | 100.0%      |                       | _          |               | •            |
| 710 McKi  |        | . ī        | ī   | 100.0%      | · • <u>'</u>          | •••        | -             | • -          |
| 715 Guth  |        | $\bar{2}$  | Ō   | -1,10       | _                     | -          |               | _            |
| 702 LA    | •      | 2          | ĺ   | 50.0%       | . 1                   | 100.0%     | .500          | . 2.30       |
| 742 I.A   |        | 1          | . 0 | , 0         | _                     |            | -             |              |
| 851 Atla  | nta ´  | 2          | Ì   | 50.0%       | 1                     | 100.0%     | .500          | 2.50         |
| .853 Atla | nta    | 1.         | . 0 | 0           | _                     | -          | _             |              |
| 405 Phoe  |        | 1          | 1   | 100.0%      | _                     | _          | -             | -            |
| 407 Phoe  |        | 1          | 1   | 100.0%      |                       | <u>-</u>   | _             | •            |
| 415 Port  |        | 1          | 0   | 0           | . <del>-</del>        | ,≟ •       |               |              |
| 417 Port  | land   | <b>2</b> . | i   | 50.0%       | ` -                   | <b>-</b>   | -             | • -          |
| <u> </u>  |        |            |     |             |                       | <u> </u>   | <u> </u>      |              |
| TOTA      | L      | 17         | 7   | 41.2%       | 2 .                   | 28.6%      | .118          | 2.40         |

, 3

01-G FASHION ARTIST (FEMALE)

| • | a contraction of the second             | * * * * * * * * * * * * * * * * * * * | The state of the s | s produce a more superior and         |                                       |            |
|---|---|---------------------------------------|--|---------------------------------------|---------------------------------------|------------|
|   |   | eat                                   | 9  | # 8,                                  | P/JTM                                 | JTM        |
|   | 2 2 2 2 2 2 2 2 2 2 4 2 2 4 2 4 2 4 2 4 |                                       | Placed Placed  | JTM, JTM                              | Rate                                  | waye       |
|   | 702 LA                                  | 1                                     | 1 100.08   | 1 100.0%                              | 1.00                                  | 4.50       |
| 4 | * |                                       |  | * * * * * * * * * * * * * * * * * * * | · · · · · · · · · · · · · · · · · · · | . <u> </u> |

01-X, OTHER (FEMALE)

|      |   |         |    | ~ |   |     |           | · · · · · · · · · · · · · · · · · · · |               | ( - m - m - m - m - m - m - m - m - m - |       |                                       |                  |
|------|---|---------|----|---|---|-----|-----------|---------------------------------------|---------------|---|-------|---------------------------------------|------------------|
|      |   | • " •   | ,  |   |   |     | *         |                                       |               |   |       |                                       | [. ]             |
| 1000 |   | •       | :- | • | • | •   | Cat       | # ,                                   | * <b>8</b> 80 | #                                       | *     | P/JTM                                 | JTM              |
| -    |   | ,-,<br> |    |   |   |     | <u> I</u> | Placed                                | Placed        | JTM                                     | JTM « | Rate                                  | . Wage           |
|      | 7 | 42 L    | A  | - |   | • ; | 1         | `. <b>1</b> .                         | 100.0%        | <del>_</del>                            | •••   | · · · · · · · · · · · · · · · · · · · | . <del>-</del> . |
|      | 4 |         |    |   | × |     | •         |                                       | P3            |   |       |                                       | . 2001           |

|           | -    | The second secon | a David - Francisco | ***** ** *** |
|-----------|------|--|---------------------|--------------|
| CLUSTER ( | )Z'i | CLURICAL   | /SALES (            | (MALE)       |

|  | Cat          | ***                     | 8              | *        | 8                   | P/JTM  | JTM             |
|--|--------------|-------------------------|----------------|----------|---------------------|--|-----------------|
| The state of the s | <u>. I</u>   | Placed                  | Placed         | JTM      | <u>) jīm -</u>      | Rate   | Wage            |
| 082 Blackwell  | - i          | ì                       | 100.0%         | <b>1</b> | 100,0%              | 1.000  | 3.50            |
| 051 Pine Ridge   | " 11         | <b>5</b>                | 45.48          | 1        | · ~ 20.0% -         |  | 3.50            |
| 046 Trapper Creek<br>088 Box Elder<br>172 Anaconda<br>243 Collbran<br>323 Weber Basin  | 5            | 3. 1                    | 60.0%          | 2 .      | 66.78               |  | 3.80            |
| 088 Box Elder  | 2            | . 2                     | 100.0%         | _        | -                   | -  |                 |
| 172 Anaconda   | 7            | -6 <u>-</u>             | 85.7%          |          | 50.0%               | - <sup>-</sup> .429 -  | 2:56            |
| 243 Collbran -   | 1 -          | 1                       | 100.0%         |          | <b>-</b>            | . · · · - <u>.</u>   | - · · · · · · · |
| 323 Weber Basin  | . 4          | . <b>2-</b> "           | 50.0%          |          | - 50.0 <del>%</del> | .250   | 4.10            |
| 064 Timberlake   | 8-           | 6                       | 75.0%          | 4        | 66.78               | <b>.</b> .500  | 2.63            |
| 078 Curlew   | 7-           | 4                       | 57.18          | 1,       | 25.0%               | .143   | 2.30            |
| 145 Wolf Creek   | · <b>4</b> - | 4 .                     | 100.0%         | · - 2    | 50.0%               | •500   | 2.79            |
| 340 Ft. Simcoe   | 8.           | .5                      | 62.5%          | . 4      | 80.0%               |  | 3.53            |
| 770 Keystone   | . 3.         | 0                       | 0.             |          |                     | <del>.</del>   |                 |
| 737 Cleveland  | ,-           | <b>Š</b> -              | 100.0%         | 4        | 80.0%               | .800   | 5.86            |
| 754 Albuquerque  | - 3          | .0                      | 0.             |          |                     |  |                 |
| 750 Excelsion  | ,•           | gad se <sup>™</sup> , s |                | -        |                     | -  | . T             |
|  | 1            | - Î                     | 100.0%         | 1.       | 100-09-             | 1.000  | 3.00            |
| 751 Excelsion  | - 🛨          | •                       |                |          | -44.00              | 7.000  | 2.00            |
| Springs  | 18           | 17                      | 94.48          | 15       | 88.2%               | .833   | 5.2             |
| 740: Îlâ   | 6            | 5                       | 83.38          | 4        | 80.0%               | •667   | 6.1             |
|  | 18           | ~                       |                | 15       | 88.2%               |  | 5.8             |
| 741 LA<br>776 Tongue Pt  | 9            |                         | 94.48<br>77.88 | τĎ       | 71.4%               |  |                 |
| 7.75: TORQUE RE  | <br>1 -      | 1                       | -100-08        | 5<br>1   | 100.0%              |  | 5.3             |
| 831 Woodstock<br>431 Detroit   | · 3-         | 0                       |                | _        | TOG - 04            | 1.000  | - 2.30          |
|  | 4            | U                       | - 0<br>100.0%  |          | 100 00              |  | i h             |
| 461 Minn Ext Center  | Ī            | 1 5                     |                |          | 100.0%              | 1.000  | 5.39            |
| 816 Cincinnati   | 5<br>2.      | ,                       | 100.0%         | T        | 20.0%               | .200   | 2.7             |
| 819 Cincinnati   | 2.           | 1                       | -50.0%         | _ *      |                     | -  |                 |
| 857 Tulsa  | 24           | 15 -                    | 67.5%          | 8        | 53.3%               |  | 2.88            |
| 859 Tulsa  | 9            | 6                       | 66.7%          | 5        | 83.3%               |  | 2.7             |
| 840 Kicking Horse  |              | , 9                     | 60.0%          | 7        | 77.8%               |  | 3.10            |
| 401 Phoenix  | 3            | 3                       | 100.0%         | 2        | 66.78               |  | 2.25            |
| 403 Phoenix  | 5,           | 4                       | 80.08          | 1        | 25.0%               | .200   | 5.89            |
| 442 San Jose   | 2            | 1.                      | 50.0%          |          | _                   | -  | •               |
| 446 San Jose   | 46           | 31                      | 67-48-         |          | 77-48-              |  |                 |
| 806 Hawaii   | - 5          | 4                       | 80.08          | 3        | 75.0%               |  | -2-48           |
| 413 Portland   | <b>5</b> ,   |                         | 40.0%          | 2        | 100.0%              |  | 2.65            |
| 418: Portland  | 1            | 1                       | 100.0%         | 1        | 100.0%              | 1.000  | 3.10            |
| 906 Breckenridge   | 23           |                         | 47.88          | 7        | 63.68               | .304   | 3.74            |
| 905 Atterbury  | 26           | 17                      | 65.4%          | 14       | 82.48               | .534-  | 4.60            |
| 903 Gary   | 14           | . <sub>.</sub> 5        | 35.7€          | 4        | 80.08               | <b>. 286</b> j   | 2.87            |
| 910 Clearfield   | 6            | 4                       | _ 66.7%        | 3        | 75.0%               | .500   | 4.26            |
| 746 Charleston   | 1            | 1                       | 100.0%         | 1        | 100.0%              | 1.000  | 5.50            |
|  | •            |                         |                | •        |                     | •  |                 |
| en e   |              | -                       | ŝ              |          |                     | ,  |                 |
| TOTAL  | 317          | 214                     | 67.5%          | 149      | 69.6%               | .470   | 3.99            |
| egenge a la mana la  |              |                         |                |          |                     | Marie Procedul Companies agree of the control of the control |                 |

|  | Cat      | #          | <b></b>    | #            | ************************************** | P/JTM                                  | JTM            |
|--|----------|------------|------------|--------------|--|--|----------------|
| AND AS SECOND STATE OF STATE O | <u> </u> | Placed     | Placed_    | JTM          | ĴТМ                                    | Rate                                   | Wage           |
| A STATE OF THE STA | *        | ,          |            |              | č.                                     |  | `.             |
| 737 Cleveland  | 4        | . 4        | 100.0%     | -            |  | 7                                      |                |
| 754 Albuquerque  | 2.       | · · · 0    | 0.         | <b>-</b> .   | · <u>-</u>                             | • •                                    | ( <del>"</del> |
| 750 Excelsion  | •        | _          |            | -            |  | • • •                                  | 2.2.           |
| Springs  | 1        | · 1        | 100.0%     | ì            | 100.0%                                 | 1.000                                  | 3.00           |
| 740 LA   | 6 -      | 5          | 83:38      | . 4          | 80.0%                                  | .667                                   | 6.09           |
| 741. LA  | 17.~     | 16 .       | 94.1%      | 10 `         | 62.5%                                  | .588                                   | - 6.29         |
| 831 Woodstock  | 1        | 1          | 100.0%     | î j          | 100.0%                                 | 1.000                                  | 2.30           |
| 431 Minn Ext Center  | ī        | ·ı         | 100.0%     | 1            | 100.0%                                 | 1.000 °                                | 5.35           |
| 857 Tulsa  | 5        | 3          | 60.08      |              |  | ······································ |                |
| 840 Kicking Horse  | 14       | · 8        | 57.1%      | 5            | -62.5%                                 | •357 <sup>·</sup>                      | 2.50           |
| 403 Phoenix  | - 2      | . 2        | 100.0%     | • -          | ,                                      | <u>.</u>                               |                |
| 442 San Jose   | . 1      | 0          | - 0        | <u> </u>     |  |  | } <del>-</del> |
| 446 San Jose   | . 14     | 9          | 64.3%      | - <b>7</b> - | 77.8%                                  | .500                                   | 3-03           |
| 806 Hawaii   | - 4      | 3          | 75.08      | <b>2</b> ·   | 66.78,                                 | .500                                   | - 2:30         |
| 413 Portland   | 5        | 2          | 40.0%      | - 2          | 100.0%                                 | 400                                    | 2.65           |
| 418 Portland   | ī        | <u> </u>   | 100.0%     | . 1          | 100.0%                                 | 1.000                                  | . 3.10         |
| 906 Brecken idge   | 13.      | 6          | 46.28      | 4 -          | 66.78                                  | .308                                   | 4.20           |
| 905 Atterbury  | 13       | 10         | 76.98      | 7            | 70.0%                                  | 538.··                                 | 3.96           |
| 903 Gary   | 4        | ī          | 25.0%      | 1            | 100.0%                                 | .250                                   | 2.75           |
| 910 Clearfield   | 3        | · <b>2</b> | -66.78     | _1           | 50.0%                                  | .338                                   | 3.50           |
| 431 Detroit  | ·ĭ       | ō          | . 0        | _            | • •                                    |  | · · · ·        |
| TOT DECTOTE  |          | <u> </u>   | · <u> </u> |              |  | <u>.</u>                               |                |
| TOTAL  | 112      | 75~        | 67.0%      | 47           | 62.7%                                  | .420                                   | 4.16           |

| _ | _0              | 2-B,          | OFFICE      | MACHINE     | OPERATOR | (MALE)                | <u> </u>      |             |
|---|-----------------|---------------|-------------|-------------|----------|-----------------------|---------------|-------------|
|   |                 | t<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | §<br>JTM              | P/JTM<br>Rate | JTM<br>Wage |
|   | 064 Timber Lake | 1             | 1           | 100.0%      | 1        | -100 <del>.</del> 08- | 1.000         | 2.50        |

02-C, DUPLICATING MACHINE OPERATOR

|                               | Cat<br>L |   | Placed | JTM | ş<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-------------------------------|----------|---|--------|-----|----------|---------------|-------------|
| 446 San Jose<br>905 Atterbury | 1<br>1   | 0 | 100.0% | 1   | 100.0%   | 1.000         | 3.44        |
| TOTAL                         | . 2      | 1 | 50.0%  | 1   | 100.0%   | .500          | 3.44        |

92-D, KEYPUNCH OPERATOR (MALE)

|                  | Cat<br>I | #<br>Placed    | Placed   | #<br>JTM | }<br>JTM | P/JTM<br>Rate | JTM.<br>Wage |
|------------------|----------|----------------|----------|----------|----------|---------------|--------------|
| 751 Excelsion    | •        |                | ·        |          |          |               | -            |
| Springs          | 12       | 12             | 100.0%   | ·- 9     | 75-0%    | .750          | 4.98         |
| 741 LA           | 1        | ĺ              | 100.0%   | 1        | 100.0%   | 1.000         | 2.79         |
| 857 Tulsa        | 1        | ľ              | -100.0%  | 1        | 100.0%   | 1.000         | . 3.00       |
| 903 Gary         | 6        | <sup>*</sup> 3 | `50.0% ⋄ | 2        | 66.7%    | .333          | 2.87         |
| 906 Breckenridge | , 1      | , <b>1</b>     | 100.0%   | 1        | 100.0%   | 1.000         | 3.83         |
| TOTAL            | 21       | · 18           | 85.7%    | 14       | 77.8%    | .667          | 4.30         |

| To the second second second  | -            | 1 1 1 1 1 1 1 | OCK CLERI   | 1481 - 1235A |          | 7 1 45 7 1    |              |
|--|--------------|---------------|-------------|--------------|----------|---------------|--------------|
| The second secon | Cat<br>I     | #<br>Placed   | %<br>Placed | JTM          | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage  |
| 051 Pine Ridge<br>046 Trapper  | 11           | 5             | 45.5%       | 1            | 20.0%    | .091          | 3.50         |
| Creek  | 5            | 3             | 60.0%       | . 22         | 66.7%    | .400          | 3.50         |
| 088 Boxelder   | 2            | 2             | 100.0%      | -            | -        | -             | . ~ <b>~</b> |
| 172 Anaconda   | 7            | 6 .·          | 85.7%       | 3            | 50.0%    | .429          | 2.56         |
| 243 Collbran   | `1           | 1 .           | 100.0%      | =            | -        | ÷., ÷         |              |
| 373 Weber Basin  | 4            | 2             | 50.0%       | 1            | 50.0% ~  | .250          | 4.10         |
| 064 Timber Lake  | 7            | 5 -           | 71.4%       | 3.           | 6010%    | .428          | 2.68         |
| 078 Curlew   | 7            | 4             | 57.1%       | 1            | 25.0%    | .143          | 2.30         |
| 145 Wolf Creek   | . <b>4</b> . | · 4           | 100.0%      | 2 ~          | 50.0%    | .500          | 3.79         |
| 340 Ft. Simcoe   | 8            | 5 ,           | 67.5%       | 4            | 8Ò.Ô\$   | .500          | - 3.53       |
| 340 Kicking Horse  | 1            | 1             | 100.0%      | ÷            | -        |               |              |
| 806 Hawaii   | .1           | . 1           | 100.0%      | 1            | 100.0%   | 1.000         | 2.85         |
| TOTAL  | 58           | 39            | 67.2%       | 18           | : 46.2%  | .310          | 3.21         |

Cat # % # % P/JTM JTM
I Placed Placed JTM JTM Rate Wage

754 Albuquerque 1 0 0 0 - - - -

|          | *         | #          | *       |        |             | ***        |        |             |
|----------|-----------|------------|---------|--------|-------------|------------|--------|-------------|
|          |           | Cat        | # * * * | 8      | · #         | , <b>8</b> | P/JTM. | JTM         |
|          | <u> </u>  | · I        | Placed  | Placed | JTM ·       | JTM        | Rate   | Wage        |
|          | No.       |            |         |        |             |            |        |             |
| 770 ˈ    | Keystone  | · 1        | 0       | 0      | -           |            | · -    | -           |
| 401      | Phoenix   | ~ <b>1</b> | 1       | 100.0% | .1          | 100.0%     | 1.000  | 2.50        |
|          | Atterbury | 5          | 0       | 0 -    | -           | -          | e i 其  | -           |
| <u> </u> |           | · · ·      | . *     |        | <del></del> | · ·        |        | <del></del> |
|          | TOTAL '   | 7          | . 1     | 14.3%  | 1           | 100-0%     | .147   | 2.50        |

02-H, SECRETARY (MALE)

|  | Cat<br>I    | ‡<br>Placed | Placed | JTM         | JTM                       | P/JTM<br>Rate          | JTM<br>Wage          |
|--|-------------|-------------|--------|-------------|---------------------------|------------------------|----------------------|
| 857 Tulsa<br>859 Tulsa<br>446 San Jose | 2<br>2<br>1 | 2<br>2<br>1 | 100.0% | 2<br>1<br>1 | 100.08<br>50.08<br>100.08 | 1.000<br>.500<br>1.000 | 2.96<br>3.13<br>3.35 |
| TOTAL                                  | 5           | 5           | 100.0% | 4           | 80.08                     | .800                   | 3.10                 |

02-I, BOOKKEEPER (MALE)

|                            | Cat | Placed | .8              | JTM | §<br>JTM | P/JTM<br>Rate | JTM<br>Wage  |
|----------------------------|-----|--------|-----------------|-----|----------|---------------|--------------|
| 903 Gary<br>910 Clearfield | 1   | 1      | 25.0%<br>100.0% | 1   | 100.0%   | .250<br>1.000 | 3.00<br>2.50 |
| TOTAL                      | 5   | 2      | 40.0%           | 2   | 100.0%   | .400          | 2.75         |

02-J, CALCULATING MACHINE OPERATOR (MALE)

|              | Cat | #<br>Placed | %<br>Placed | #<br>JTM | JTM    | P/JTM-<br>Rate | JTM  |
|--------------|-----|-------------|-------------|----------|--------|----------------|------|
| 446 San Jose | 1   | .1          | 100.0%      | . 1      | 100.0% | 1.000          | 3.40 |

02-K, MAIL CLERK (MALE)

|                            | • | at<br>I | Placed | 8      | #<br>JTM | å<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|----------------------------|---|---------|--------|--------|----------|----------|---------------|-------------|
| 401 Phoenix<br>403 Phoenix |   | 2       | 2<br>2 | 100.0% | -        | •<br>•   |               |             |
| TOTAL                      |   | 5,      | . 4    | 80.08  | •        | ,        | <b>-</b> .    | _           |

02-L, CASHIER/CHECKER (MALE)

|                               | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | §<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-------------------------------|---------------|-------------|-------------|----------|----------|---------------|-------------|
| 857 Tulsa<br>906 Breckenridge | 1 9           | 0           | 0 44.0%     | 1        | 25.0%    | .111          | 2.30        |
| TOTĂL                         | 10.           | · . 4.      | 40.0%       | . 1      | 25.0%    | .100          | 2.30        |

02-M, CLERK, GENERAL (MALE)

|  | #<br>Cat |        |             | -41 |            | P/JTM      | JTM-           |
|--|----------|--------|-------------|-----|------------|------------|----------------|
| Appropriate the designation rape are in a second | <u> </u> | Placed | Placed      | JTM | JTM        | Rate       | Wage           |
| 776 Tongue Pt                                    | 2        | 0      | . 0         |     | -          | <b>.</b>   | ` :            |
| 816 Cincinnati                                   | 5        | 5      | 100.0%      | 1   | 20.0%      | . 200      | 2.25           |
| 818 Cincinnati                                   | 2        | 1 .    | 50.0%       | -   |            |            | <b>-</b>       |
| 857 Tulsa.                                       | 1        | 0      | <b>0</b> .  | -   | <b></b> ', | -          | •              |
| 859 Tulsa  | 1        | 0      | 0           | -   | -          | , <b>–</b> | ٠ <del>-</del> |
| 446 San Jose                                     | . 1.     | 1      | 100.0%      | 1.  | 100.0%     | 1.000      | 2.50           |
| 905 Atterbury                                    | . 1      | 1      | 100.0°\$ ·· | 1   | 100.0%     | 1.000      | 3.00           |
| TOTAL  | 13       | 8      | 61.5%       | . 3 | 37,5%      | .231       | 2.58           |

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|--|------------|----------|
| 02-0. MEDICAL SECRI  | PTARV      | "/MATEV" |

|           | Cat<br>I | Placed | Placed J | # %<br>TM JTM | P/JTM<br>Rate | JTM<br>Wage |
|-----------|----------|--------|----------|---------------|---------------|-------------|
| 857 Tulsa | 1        | 1      | 100.0%   | 1 100.        | 0% 1.000      | 3.20        |

02-P, RECEPTIONIST (MALE)

|               | #        |             | `.          | <u> </u> |              |               |                  |
|---------------|----------|-------------|-------------|----------|--------------|---------------|------------------|
|               | Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM     | P/JTM<br>Rate | JTM `<br>Wage    |
| 857 Tulsa     | . A      | • 1         | 25.0%       |          | , '4         |               |                  |
| 859 Tulsa     | 3        | 2           | 66.78       | -        |              | · -           | <b>-</b> .<br>   |
| TOTAL         | . ,      | •           | 42.9%       |          | <u> </u>     |               | · — — ·          |
| ANTONIA TOTAL |          |             | 44,795      | · •      | <del>-</del> |               | <del>-</del> , ~ |

|  | <del>- 1</del> | 2-R, STE    | NOGRAPHER           | (MALE)   |          |               | ·———        |
|--|----------------|-------------|---------------------|----------|----------|---------------|-------------|
| · · · · · · · · · · · · · · · · · · ·    | Cat            | #<br>Placed | %<br>Placed         | #<br>JTM | §<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| 857 Tulsa<br>859 Tulsa<br>910 Clearfield | 2<br>2<br>1    | 1 0         | 50.0%<br>50.0%<br>0 | 1        | 100.08   | .500          | 2.30        |
| TOTAL                                    | 5              | 2           | 40.0%               | 1        | 50.0%    | .200          | 2.30        |

|   |            |                |   | 02-S | TELEWRIT    | ER/TWX OF | ERATOR | (MALÉ)   |               | ************************************** |
|---|------------|----------------|---|------|-------------|-----------|--------|----------|---------------|--|
|   | ann a      |                |   | Cat  | #<br>Placed | Placed_   | JTM    | §<br>JTM | P/JTM<br>Rate | JTM<br>Wage                            |
| • | 857<br>859 | Tulsa<br>Tulsa |   | 1 1  | 0<br>1      | 0         | , i    | 100.0%   | 1.000         | 2.75                                   |
|   | • • •      | TOTAL          | • | 2    | -1          | 50.0%     | 1      | 100.0%   | .500          | 2.75                                   |

02-T, TELEPHONE OPERATOR (MALE)

|   | Cat<br>I    | #<br>Placed | %<br>Placed | ‡<br>jtm | \$<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|---|-------------|-------------|-------------|----------|-----------|---------------|-------------|
| 770 Keystone<br>776 Tongue Pt<br>446 San Jose | 2<br>4<br>1 | 0<br>4<br>0 | 100.0%      | 2        | 50.0%     | .500          | 3:55        |
| TOTAL   | ″ <b>7</b>  | 4           | 57.1%       | 2        | 50.0%     | .286          | 3.55        |

02-W. WARD CLERK (MALE)

|                              |               | UZ-N, NE    | WD CHEVY | (MADE) |          |               | 1 10        |
|------------------------------|---------------|-------------|----------|--------|----------|---------------|-------------|
|                              | #<br>Cat<br>I | #<br>Placed | Placed   | JTM_   | ł<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| 431 Detroit<br>905 Atterbury | ,<br>1<br>1   | 0           | 0        | -      | , ma     | -<br>-        |             |
| TOTAL                        | 2 .           | 0           | 0        | •      | -        |               |             |

| 'n | クニヤ  | . OTHER (MAL | D1.  |
|----|------|--------------|------|
| ·  | 4 TA | * OTHER IMML | r, i |

|   |  | #                                     | •           |             |                |   |             | -    |
|---|--|---------------------------------------|-------------|-------------|----------------|---|-------------|------|
|   | ٠ .  | Cat                                   | #<br>Placed | %<br>Placed | #<br>JTM       | %<br>JTM                                | P/JTM       | JŢM  |
| <del>````</del>                                   | · · · · · · · · · · · · · · · · · · ·  |                                       | - Fracen    | Fraceu      | O IM           | OIM                                     | _Rate       | Wage |
|   | Blackwell  | 1                                     | 1           | 100.0%      | . 1            | 100.0%                                  | 1.000       | 3.50 |
| 737   | Cleveland  | 1                                     | 1           | 100.0%      | 1              | 100.0%                                  | 1.000       | 6.25 |
| 442.  | San Jose   | . 1                                   | l           | 100.0%      | -              | _,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |             | -    |
|   | San Jose   | ` 26                                  | 18          | 69.2%       | 8              | 44.48                                   | .307        | 2.99 |
| 905   | Atterbury  | 3                                     | 3           | 100.0%      | ¢ 3            | 100.0%                                  | 1.000       | 7.00 |
|   | Clearfield   | ·1 —                                  | ī           | 100.0%      | i              | 100:08                                  | 1.000       | 6.80 |
| 746   | Charleston   | Ī.                                    | ī           | 100.0%      | ī              | 100.0%                                  | 1.000       | 5.50 |
| 751   | Excelsior  | • • • • • • • • • • • • • • • • • • • | ,           |             | <del>_</del> . | 2001,00,                                | 7.003       | 3.30 |
| , , , , <del>, , , , , , , , , , , , , , , </del> | Springs  | 6                                     | <b>5</b> .  | 83.3%       | 5              | 100.0%                                  | .833        | 6.27 |
| 776   |  | · · · · · · · · · · · · · · · · · · · | 3           | 100.0%      | . 1            | 100.0%                                  | 1.000       | 6.53 |
| andressa alikari da<br>an arri                    | A STATE OF THE STA | ٠٩٩                                   |             | _3.3 6.2.6. | · ·            | , ,                                     |             | 0.55 |
| Taylor v v  |  |                                       | <del></del> |             |                |   | <del></del> |      |
|   | TOTAL  | 43                                    | 34          | 79-18       | 21             | 6188                                    | . 188       | 5.00 |
|   |  | •                                     | `           |             |                |   | 1,500       |      |

|         | -        | prie L        | 3 1 2 2 2 3 |       | · .        |            |
|---------|----------|---------------|-------------|-------|------------|------------|
| CLUSTER | ^^       | ~ T:-         |             | /a s  |            |            |
| CLMSTER | 11 / 1/2 | . ( '   .   . | ' 1 ( 'Δ    | CALES | : /www.mid | 1 T. M' 1: |
|         |          |               | LLCDU/      |       |            |            |

| ļ, · · · · |                                       |             |            |        |         |                   | <b>7.</b> / <b>7.</b> / <b>7.</b> | 7     |
|------------|---------------------------------------|-------------|------------|--------|---------|-------------------|-----------------------------------|-------|
| · ` `.     |                                       | Cat         | - 情        | \$     | ·#      | 8                 | P/JTM                             | JTM   |
|            | · · · · · · · · · · · · · · · · · · · | <u> </u>    | Placed     | Placed | JTM     | JTM               | Rate                              | Wage  |
| 700        |                                       |             | ` }        |        |         |                   |                                   |       |
|            | Charleston                            | 57          | . 36       | 63.2%  | 27      | 75.0%             | .474                              | 3.49  |
|            | Keystone                              | 104         | 52         | 50.0%  | 3.4     | 65.4%             | .327                              | 2.84  |
|            | Blue Ridge                            | 45.         | 34         | 75.6%  | 19      | 55.9%             | .423                              | 2.42  |
|            | Charleston                            | 6           | . 3        | 50.0%  | 2       | 66.7%             | .333                              | 2.98  |
|            | Cleveland                             | 115         | 69         | 60.0%  | 54      | 78.3%             | .470                              | 3.26  |
|            | Cleveland                             | . 3         | 3          | 100.0% | 3       | 100.0%            | 1.000                             | 3.65  |
|            | Albuquerque                           | 112         | 48         | 42.9%  | 28      | 58.'3%            | .250                              | 2.60  |
|            | McKinney                              | 216         | 128        | 63.9%  | 80      | 62.5 <del>%</del> | . 399                             | 2.60  |
|            | Guthrie                               | 75          | 27         | 36.0%  | 19      | 70.4%             | . 253                             | 2.54: |
|            | Albuquerque                           | 3,          | 2          | 66.78  | 1       | 50.0%             | .333                              | 2.30  |
| 7.06:      | Excelsior                             |             |            | _      |         |                   |                                   |       |
|            | Springs                               | 63          | <b>_39</b> | 61-,98 | 22      | 56.4%             | .349                              | 4.22  |
|            | LA                                    | 72          | 49         | 68.1%  | .40     | 81,6%             | . • 556                           | 3.42  |
| 7.42       | LA                                    | 23          | 18         | 78.3%  | · 17    | 94.48             | .739                              | 3.65  |
| 717        | Tonque Point                          | 94          | 64         | 68.1%  | 49      | 76.68             | .521                              | 4.05  |
|            | Atlanta                               | 37          | 18         | 48.5%  | 10.     | 55°•68            | .270                              | 2.75  |
|            | Atlanta                               | 20          | 11         | 55.0%  | 9       | 81.8%             | .450                              | 2.95  |
|            | Detroit                               | 22          | 4          | 18.2%  | 1       | 25.0%             | .046                              | 2.50  |
|            | Cincinnati                            | <b>'-10</b> | - 4        | 40.0%  | 3<br>.1 | 75.0%             | .300                              | 2.36  |
|            | El Paso                               | 1           | 1 2        | 100.0% | 1       | 100.0%            | 1.000                             | 2 60  |
|            | Tùlsa                                 | 2           | 2          | 100.0% | 2       | 100.0%            | 1.000                             | 4.69  |
|            | Phoenix                               | 26          | 15         | 57.7%  | 13      | ∘86.78            | .500.                             | 2.49  |
|            | Phoenix                               | 44          | 25         | 56.8%  | 18      | 72.0%             | .409                              | 2.46  |
|            | San Jose                              | 1           | , 1        | 100.0% | 1       | 100.0%            | 1.000                             | 3.25  |
|            | Hawaii.                               | 13          | ` 11       | 84.6%  | 11      | 100.0%            | .846                              | 3.03  |
|            | Portland                              | ` 15        |            | 60.0%  | 7       | 77.8%             | .467                              | 3.02  |
|            | Portland                              | 4           | ٠ 3        | 75.0%  | 3       | 100.0%            |                                   | 3.31  |
|            | Breckenridge                          | 104         | 42         | 40.4%  | 10      | 23.8%             |                                   | 2.41  |
|            | Atterbuky                             | 12          | 9          | 75.0%  | 6       | 66.7%             | .500                              | 2.53  |
| 914        | Gary                                  | 21          | 11 .       | 52.4%  | 9.      | 81.8%             | .429                              | 2.80  |
| ,          | TOTAL                                 | 1,320       | 738        | 58.2%  | 499     | 67.68             | .378                              | 2.98. |

|                    |               | 02-A        | CLERK      | TYPIST          | FEMAL       | E)         | **            | *                 |
|--------------------|---------------|-------------|------------|-----------------|-------------|------------|---------------|-------------------|
|                    |               | Cat         | Placed     | §<br>Placed     | #<br>JTM    | 8<br>UTM   | P/JTM<br>Rate | JTM<br>Wage       |
| 703                | Charleston    | 22          | 12         | 54.5%           | 8           | 66,78      | .364          | 3.11              |
|                    | Keystone      | 36          | 0 18       | 50.0%           | •           | 72.28      | .361          | 3.18              |
| 720                | Blue Ridge    | 5           | 4.         | - 80.0%         | <b>1</b>    | 25.0%      | .200          | 2.60              |
|                    | Charleston    | . 2         | 1          | 50.0%           | ٠ī          | 100.0%     | .500          | 3.50              |
|                    | Cleveland     | 55          | 35         | 63.68           | 20          | 57.1%      | .364          | 3.37              |
| 7.38               | Cleveland     | 2           | <b>2</b>   | 100.0%          | -           |            | -             | -                 |
| : 7Ò9̀             | Albuquerc e ' | 63          | 21~        | 33.3%           | 41          | 52.48      | .174          | 2.66              |
| 710                | McKinney      | 46          | 29         | 63.0%           | 20          | 69.08      | .435          | 2.65              |
| 715                | Guthrie       | 21          | 10         | 47.6%           | 8           | 80.0%      | .381          | 2.71              |
| 756                | Albuquerque   | 1           | ± 0        | 0               |             | »          | -             |                   |
| 706                | Excelsion     |             |            |                 |             | `_         |               |                   |
|                    | Springs       | 15          | 8          | 53.3%           | . 2         | 25.0%      | .133          | 2.30              |
| 702                | LA            | 50          | 33         | 66.0%           | 15          | 45.5%      | .300          | 3.56              |
| 742                | LA            | 13          |            | 92.38           | 6           | 50:08      | .462          | 4.38              |
| 717                | Tongue Point  | 29          | 19         | 65.5%           | 10          | 52.6%      | .345          | 3.94              |
|                    | Atlanta       | 17          | . 8        | 47.18           | 3           | 37.5%      |               | 2.95              |
| ੈ:853 <sup>⋅</sup> | Atlanta       | 6           | 2          | 33.38           | 1           | 50.0%      | .167          | 3.50              |
| 437°               | Detroit       | 11          | 3          | 27.3%           | 1           | 33.3%      | .091          | 2.50              |
| 856                | Tulsa         | 1           | 1          | 100.0%          | ٠ ٦         | 100.0%     | 1.000         | 6.26              |
| 405                | Phoenix       | . 8         | <b>5</b> . | `67 <b>.</b> 5% | 2           | 40.0%      | .250          | 2.55              |
| :407               | Phoenix       | 12          | 9          | 75.0%           | 4           | 44.48      | <b>,333</b>   | 2.47              |
| 447                | San Jose      | 1           | 1          | 100.0%          |             | <b>-</b> . | _             | -                 |
| . 807              |               | 13          | 11         | 84.6%           | 9           | 81.8%      | .692          | 3.05              |
|                    | Portland      | 15          | 9 .        | 60.0%           | 6           | 66.7%      | .400          | 3.03              |
|                    | Portland      | 4           | 3          | 75.0%           | 2           | - 66.7%    | .500          | 3.44              |
|                    | Breckenridge  | 64          | 24         | 37.5%           | 5 .         | 20.8%      | .078          | 2.40              |
|                    | Atterbury     | 8           | 6          | 75.0%           | 3           | 50, 0%     | .375          | 2.53              |
| 914                | Gary          | 7           | <b>^4</b>  | 57.1%           | · 3,        | 75.0%      | 429           | 2.95 <sup>^</sup> |
|                    | <del></del>   | <del></del> |            | <del> </del>    | <del></del> | -4,        |               |                   |
| ` `                | TOTAL         | 523         | 286        | 54.78           | 151 4       | 52.8%      | .289          | 3.05              |

| ٠ |                 | 02-B,    | OFFICE M    | ACHINE OF   | ERATOR   | (FEMALE) | <del></del>    |             |
|---|-----------------|----------|-------------|-------------|----------|----------|----------------|-------------|
|   |                 | Cat<br>I | ‡<br>Placed | %<br>Placed | #<br>JTM | §<br>JTM | P./JTM<br>Rate | JTM<br>Wage |
|   | 709 Albuquerque | . 2      | . 2 '       | 100.0%      | 1        | 50.0%    | 500            | 2.97        |

|     |              | 02               | 2-D, KEYI   | PUNCH OPE     | RATOR          | (FEMALE. | <u> </u>      |             |
|-----|--------------|------------------|-------------|---------------|----------------|----------|---------------|-------------|
|     |              | #<br>Cat<br>I    | #<br>Placed | % .<br>Placed | #<br>JTM       | %<br>J™  | P/JTM<br>Rate | JTM<br>Wage |
| ·:  | .`           |                  | ,           |               | 7_             | 100.00   | 2.22          | 2 05        |
| 703 | Charleston   | 3<br>30 ·        | 1 、         | 33.3%         | 1              | 100.0%   | .333          | 2.85        |
| 716 | Keystone     | 30 .             | 15 🔪        | 50.0%         | 5              | 333%     | 167           | 2.72        |
|     | Charleston   | 1                | 0.          | 0             | - ,-           | -        |               | -           |
|     | Cleveland    | 18               | 10          | 55.6%         | 6              | 60.0%    | .333          |             |
|     | Cleveland    | ; <u>1</u>       | _ <b>1</b>  | 100.0%        | 1              | -100.0%  | 1.000         | 2.60        |
|     | Albuquerque  | 11               | <u> </u>    | 27.3%         | 2              | 66.78    | 1.182         | 2.65        |
|     | McKinney     | 26               | 21          | 80.8%         | 41             | 52.48    | `.423         | 2.95        |
|     | Guthrie      | . 5              | 2           | 40.0%         | 2              | 100.0%   | ~.400         | 2.40        |
|     |              | 1                | í           | 100.0%        | ī              | 100.0%   | 1.000         | 2.30        |
|     | Albuquerque  | , , <del>'</del> | _           | 100.04        | _              | 100.00   | 2.000         |             |
| 706 | Excelsion    | · -              | -           | 100.0%        | .7             | 100.0%   | 1.000         | 6.23        |
|     | Spr ings     | /                | /           |               | 2              | 100.0%   | 1.000         | 3.41        |
| 702 |              | 2                | 2           | 100.0%        | 2              | 100.00   | 1.000         | 3.41        |
| 742 | LA           | 2                | 1           | 50.0%         | -              | 100 00   | 1 000         | 2.60        |
| 849 | El Paso      | . 1              | 1           | 100.0%        | Ţ              | 1.00.0%  | 1.000         |             |
| 914 | Gary         | 9                | 5           | 55.6%,        | 3              | 60.0%    | .333          | 3.05        |
| 717 | Tongue Point | 1                | 1           | 100.0%        | ļ <sub>.</sub> | 100.0%   | 1.000         | 3.83        |
|     | TOTAL        | 118              | 71          | 60.28         | 43             | 60.68    | .364          | `3.49       |

| _`_   |   | 200      |       |   |      |   | -      |     |
|-------|---|----------|-------|---|------|---|--------|-----|
| U.J E | - |          |       | 4 | -    |   |        | •   |
| UZTE  | _ | 311 A. K | CLERK |   | rkki | - | 1 . H. | B 3 |
|       | • |          | · ~   | ^ |      |   |        |     |

|                                 | Cat     | #<br>Placed | %<br>Placed     | ‡<br>JTM | \$<br>JTH | P/JTM<br>Rate | JTM<br>Wage |
|---------------------------------|---------|-------------|-----------------|----------|-----------|---------------|-------------|
| 709 Albuquerque<br>710 McKinney | 1<br>22 | 11          | 100.0%<br>50.0% | <b>-</b> | 36.4%     | .182          | 2.32        |
| TOTAL                           | 23      | 12,         | 52.2%           | - 4      | 33.38     | .174          | 2.32        |

02 F, RETAIL SALES CLERK (FEMALE)

|  | #<br>Cat<br>I         | ‡<br>Placed        | %<br>Placed                       | #<br>JTM | %<br>JTM                | P/JTM<br>Rate        | JTM<br>Wage          |
|--|-----------------------|--------------------|-----------------------------------|----------|-------------------------|----------------------|----------------------|
| 729 Blue Ridge<br>709 Albuquerque<br>710 McKinney<br>756 Albuquerque | . 23<br>22<br>19<br>1 | 18<br>13<br>9<br>1 | 78.3%<br>59.1%<br>47.4%<br>100.0% | 7 3 3    | 38.98<br>23.18<br>33.38 | .305<br>.136<br>.142 | 2.54<br>2.36<br>2.40 |
| TOTAL  | 65                    | 41.                | 63.18                             |          | 578                     |                      | 2.47:                |

· 02-G, ACCOUNTING CLERK (FEMALE)

| •                | - #          |          | , e               | •             |                 | · · · · · · · · · · · · · · · · · · · |               |
|------------------|--------------|----------|-------------------|---------------|-----------------|---------------------------------------|---------------|
|                  | - Cat<br>- I | Placed   | <b>Placed</b>     | #<br>JTM      | §<br>jtm        | P/J'IM<br>Rate                        | JTM .<br>Wage |
|                  | N. 4.        |          |                   | <b>U</b> •    |                 | * 14                                  |               |
| 716 Keystone     | 5            | <b>2</b> | 40.0%             | 1             | . 50 <b>.0%</b> | .200                                  | 2:76          |
| 710 McRinney     | · . 10       | . 5      | 50.0%             | . 2           | 40.0%           | .200                                  | 2.66          |
| 702 LA           | , · 3        | 3        | 100.0%            | 2             | ú6.78 °         | .667                                  | 2.40          |
| 717 Tongue Point | 12           | 6        | 50.0%             | 4             | 66.7%           | .3.33                                 | 2.98          |
| 856 Tulsa 💉 🐪    | ` 1          | 1        | 100.0%            | .1 '          | 100.0%          | 1.000                                 | 3.12          |
| 407 Phoenix      | $\bar{i}$    | ī        | 100.0%            | `ī            | 100.0%          | 1.000                                 | 2.30          |
| 926 Atterbury    | 3.           | 2        | 66:78             | ī.            | 50.0%           | . : 333                               | 2.50          |
|                  | ·            | ,        |                   | <del></del> ` |                 |                                       | • •           |
| TOTAL            | . 35         | 20       | 57.1 <del>8</del> | 12            | 60.0%           | .343                                  | ° 2.73        |

02-H, SECRETARY (FEMALE)

|           |                            | Cat<br>I Plac | ed Placed      | JTM    | JTM:           | P/JTM<br>Rate | JTM<br>Wage  |
|-----------|----------------------------|---------------|----------------|--------|----------------|---------------|--------------|
| 3 X X X X | 851 Atlanta<br>853 Atlanta | 13 7<br>12 7  | 53.88<br>58.38 | 5<br>5 | 71.48<br>71.48 | .384<br>.416  | 2.62<br>2.89 |
| A 2 3.5.  | TOTAL                      | 25. 14        | 56.08          | 10     | 71.48          | .400          | 2.76         |

02-I, BOOKKEEPER (FEMALE)

|  | ‡<br>Cat<br>I | #<br>'Placed | %<br>Placed              | #.<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|--|---------------|--------------|--------------------------|-----------|----------|---------------|-------------|
| 701 Cléveland<br>709 Albuguerque<br>914 Gary | 1<br>4<br>3   | 1            | 100.08<br>25.08<br>33.38 | i<br>-    | 100.0%   | 1.000         | 3.00        |
| TOTAL  | 8             | 3            | 37.5%                    | 1         | 33.3%    | .125          | 3.00        |

02-K, MAIL CLERK (FEMALE)

| <u></u>                    | <del></del> | 102      | -v' MAIL    | CLERK (        | e erfatie ) | <del></del> | •             |              |
|----------------------------|-------------|----------|-------------|----------------|-------------|-------------|---------------|--------------|
|                            | •           | Cat<br>I | #<br>Placed | %<br>Placed    | #<br>JTM    | %<br>JTM    | P/JTM<br>Rate | JTM<br>Wage  |
| 405 Phoenix<br>407 Phoenix | •           | 18<br>31 | 10<br>15    | 55.5%<br>48.4% | 4,          | 40.08       | .222<br>.097  | 2.42<br>2.55 |
| TOTAL                      |             | 49       | 25          | 51.0%          | 7           | 28.0%       | .143          | 2.48         |

02-L, CASHIER/CHECKER (FEMALE)

| A Samuel Commence | Cat<br>I | Placed           | Placed | JTM:         | §<br>JTM  | P/JIM<br>Rate | JTM<br>Wage |
|-------------------|----------|------------------|--------|--------------|-----------|---------------|-------------|
| 703 Charleston    | 14       | ***              | 57.18  | 4            | 50.0%     | .286          | 2.70        |
| 720 Blue Ridge    | 4        | 3 *              | 75.0%  |              |           |               |             |
| 743 Charleston    | <b>I</b> |                  | 0      | <b>***</b> • | · · · — · |               |             |
| 701 Cleveland     | 11.      | 5                | 45.5%  | 3            | 60.0%     | .273          | 2.72        |
| 710 McKinney      | 32       | 19               | 59.48  | 6            | 31.6%     | .188          | 2.61        |
| 702 LA            | 2        | 1 .              | 50.0%  | 1            | 100.0%    | .500          | 2.60        |
| 742 LA            | 1        | ` <b>,</b> `1 ,  | T00.08 | . 1          | 100.0%    | 1.000         | 3.00        |
| 717 Tongue Point  | 2        | . " <b>1</b> . " | 50.0%  | 7.           | · = 👡     | ~             | · ·         |
| 934 Breckenridge  | 40       | 18               | 45.0%  | 4            | 22.2%     | .100          | 2.42        |
| 926 Atterbury     | 1        | <b>.</b> .       | 100.0% | 1.           | 100.0%    | 1.000         | 2.80        |
| ŤÓŢĄĹ             | 108      | .5.7.            | 52.8%  | 20           | 35.1%     | .185          | 2.64        |

02-M, CLERK, GENERAL (FEMALE)

| •          |              | _ <b>#</b> ; |        | · · ·            |                | •          |       | ,            |
|------------|--------------|--------------|--------|------------------|----------------|------------|-------|--------------|
| • ,        | 7 *          | Cat          | # .    | . <b>8</b>       | #              | , <b>%</b> | P/JTM | JTM .        |
|            |              | <u>I</u>     | Placed | Placed           | JTM            | jtm        | Rate  | Wage         |
| 709        | Albaquerque  | 2            | 1.     | ′ 50 <b>.</b> 0% | ì              | 100.0%     | .500  | 3.10         |
|            | McKinney     | 22           | . 11   | 50.0%            | 8              | 72.7%      | .364  | 2.70         |
|            | Guthrie      | 10           | 4      | 40.0%            | , <del>-</del> | -          | =     | <del>-</del> |
|            | Excelsion .  | • :          | •      |                  | •              | ,          | ,     |              |
| * ', ~     | Spr ings     | 2            | 1      | 50.0%            | ` 1            | 100.0%     | .500  | 2.30         |
| °702.      | LA           | , · 8        | 4      | 50.0%            | -              | -          | 7     | • •          |
| 742        | LA           | ື 3          | . 1    | 33.3%            | -              |            | _     | -            |
| 717        | Tongue Point | 22           | 13     | ₹59.1            | 4              | 30.8%      | .182  | 2.57         |
| 851        | Atlanta\.    | · 7          | 3      | 42.9%            | -              |            | - :   | -            |
|            | Atlanta      | .2           | 2:     | 100.0%           | 1              | 50.0%      | .500  | 2.95         |
| 645        | Cincinnati   | 10           | 4      | 40.0%            | 2              | 50.0%      | . 200 | 2.40         |
| . <u> </u> |              | •.,          |        | ·                |                |            | *     | <u> </u>     |
| - <u>ن</u> | TOTAL        | 88           | 42     | 47.7%            | 17             | 40.5%      | .193  | 2.65         |

02-N, CREDIT CLERK (FEMALE)

| The Park of Sales of S |              | Cat | Placed | Placed  | JTM | \$<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------------------|--------------|-----|--------|---------|-----|-----------|---------------|-------------|
|                        | 710 McKinney | 19  | 11     | 257.398 | 6   | 54.58     | .316          | 2.65        |

02-0, MEDICAL SECRETARY (FEMALE)

| 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | Cat<br>I    | #<br>Placed | %<br>Placed     | ‡<br>JTM   | ş.<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|---|-------------|-------------|-----------------|------------|-----------|---------------|-------------|
| 720 Blue Ridge<br>742 LA<br>437 Detroit | 6<br>1<br>2 | 5<br>0<br>0 | 83.3%<br>0<br>0 | •          | -         | -             |             |
| TOTAL                                   | , ġ         | . 5         | 55.6%           | · <u>-</u> | · ·       | -             |             |

02-P, RECEPTIONIST (FEMALE)

| , · ·                                 | #           | -       |                |     | •              | 1             | * , · · ·    |
|---------------------------------------|-------------|---------|----------------|-----|----------------|---------------|--------------|
| · · · · · · · · · · · · · · · · · · · | Cat<br>I    | Placed  | Placed         | JTM | з<br>JTM       | P/JTM<br>Rate | JTM<br>Wage  |
| 701 Cleveland<br>715 Guthrie          | . 6<br>. 39 | 3<br>11 | 50.0%<br>28.2% | 14  | 33.3%<br>36.4% | .167<br>.103  | 2.10<br>2.55 |
| 706 Excelsior<br>Springs<br>742 LA    | 23          | 11 1    | 47.8%<br>50.0% | 2 - | 18.2%          | .087          | 2.72         |
| TOTAL                                 | 69          | 26      | 37.7%          | 7   | 26.9%          | .101          | 2.53         |



| •  |         | Action to the second |      | 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |              |    |
|----|---------|----------------------|------|---|--------------|----|
|    | ・ハフニロ・・ | CMPM                 | ヘヘビメ | DITTED                                  | (FEMALE)     | ί. |
| ٠. | OF-U.   | OILIN                |      | PREK                                    | · CPPEMALKES | ٠. |

|   | Cat<br>I    | Placed | Placed                    | JTM | \$<br>JTM       | P/JÌM<br>Rate | JTM<br>Wage          |
|---|-------------|--------|---------------------------|-----|-----------------|---------------|----------------------|
| 716 Keystone<br>709 Albuquerque<br>717 Tongue Point<br>914 Gary | 7<br>5<br>2 | 5 2    | 14.38<br>100.08<br>100.08 | 1   | 100.08<br>50.08 | .143          | 3.0 <u>0</u><br>2.87 |
| TOTAL   | 16          | 9      | 56.38                     |     | 33.3%           | .188          | 2.62                 |

| UZTI, TELEPHUNE UPERATOR /FEMALE | ELEPHONE OPERATOR (FEM. | ĂŤ.RÌ |  |
|----------------------------------|-------------------------|-------|--|
|----------------------------------|-------------------------|-------|--|

|  | Cat<br>I             | Placed  | Placed                             | #<br>JTM    | %<br>JTM | P/JTM<br>Ráte | JTM<br>Wage  |
|--|----------------------|---------|------------------------------------|-------------|----------|---------------|--------------|
| 716 Keystone<br>702 LA<br>742 LA<br>717 Tongue Point | 15<br>'3 <<br>1<br>7 | 8 3 1 3 | 53.3%<br>100.0%<br>100.0%<br>42.9% | 2<br>-<br>2 | 66.7%    | .667<br>.286  | 2.93<br>3.10 |
| TOTAL  | 26                   | 15      | 57.78                              | 4           | 26.7%    | .154          | 3.02         |

02-W, WARD CLERK (FEMALE)

|                                 | Cat<br>I     | Placed                     | 8<br>Placed | JTM:     | 3<br>JTM    | P/JTM<br>Rate    | JTM<br>Wage                           |
|---------------------------------|--------------|----------------------------|-------------|----------|-------------|------------------|---------------------------------------|
| 716 Keystone                    | 2            | i                          | 50.0%       |          |             | · . <del>-</del> |                                       |
| 720 Blue Ridge                  | 7            | <b>\( \bar{\bar{4}} \)</b> | 57.28       | 1        | 25.0%       | .143             | 2.30                                  |
| 701 Cleveland                   | 7            | .2                         | 100.0%      | Î.       | 50.0%       | .500             | 2.80                                  |
| 710 McKinney                    | 19           | 12                         | 63.28       | <b>2</b> | 16.7%       | .105             | 2.37                                  |
| 706 Excelsion                   | ,—•,         |                            | 1. 24° 2.   | • 31     |             |                  | Χ""                                   |
| Springs                         | 1            | 0                          | ~~~`¥ò;:    |          | <del></del> |                  | · · · · · · · · · · · · · · · · · · · |
| 717 Tongue Point                | $ \bar{1}$ . | . 1                        | 100.0%      | 1        | 100.0%      | 1.000            | 2.70                                  |
| 437 Detroit                     | 9            | 1                          | 11.1%       | · - `    | · <u>-</u>  | _                | ं क <b>े</b> <del>हु</del> ≛          |
| ्रेर-४ का दक्षण्य रेखार<br>१९८४ |              |                            |             | •        |             |                  |                                       |
| TOTAL                           | 41           | 21                         | 51.2%       | 5.       | 23.8%       | .122             | 2.51                                  |

02-X, OTHER (FEMALE)

|               |          | V =,         | ~ ~ · · · · · · · · · · · · · · · · · · |             | <u>_</u>    |                 | . ,          |
|---------------|----------|--------------|---|-------------|-------------|-----------------|--------------|
|               | Cat<br>I | #<br>Placed  | %<br>Placed                             | #<br>JTM    | ₹<br>JTM    | P/JTM<br>Rate   | JTM:<br>Wage |
| 703 Charlesto | n 7.     | 5            | 71.4%                                   | 4'.         | 60.0%       | .425.           | 4.52         |
| 716 Keystone  | ġ        | 7            | 77.8%                                   | 4           | 57.1%       | .444            | ~2.58        |
| 743 Charlesto | ń 1      | • 1          | 100.0%                                  | 1           | 100.0%      | 1.000           | 2.47         |
| 701 Cleveland | ·17      | ´ <u>9</u> . | 52.9%                                   | 7           | 77.8%       | .412            | 3.58         |
| 709 Albuquerq | ue 2     | 1            | 50.0%                                   |             | <b>-</b>    | <b>'</b> —      | 7,           |
| 706 Excelsion |          | ,            |   | `           | •           | _               |              |
| Springs       |          | 7            | 70.0%                                   | . 2         | 28.6%       | .200            | 2.62         |
| 702 LA        | 4        | , 3          | 75.0%                                   | 2           | 66.7%       | <b>₄.</b> 500 ` | 3.27         |
| 742 LA        | 1        | 1 1          | 100.0%                                  | 1           | 100.0%      | 1.000           | 3.00         |
| 717 Tongue Pt | 1        | . 1, ,       | 100.0%                                  | `, <b>-</b> | <b>'-</b> . | · •             | • ` ` ` ` `  |
| TOTAL         | 52       | 35           | 67.3%                                   | 21          | 60.0%       | .404            | 3.37         |

| Salar March Comment House | Cat        |              | Placed            | JTM .                                   | \$<br>JTM_ | P/JTM<br>Rate  | JTM<br>Wage    |
|---------------------------|------------|--------------|-------------------|---|------------|----------------|----------------|
| 350 Harpers Ferry         | 4          | Ž            | 50.08             | " · · · · · · · · · · · · · · · · · · · | , *        |                | 3              |
| 031 Pine Knot             | . 17       | . <b>2</b>   | 35.38             | 1                                       | 50.08      | .250           | 3.62           |
| 058 LBJ                   | 10         | 8.           |                   | 1                                       | 16.78      | .059           | 7.60           |
| 059 Schenck               | 19         | 12           | 80.08             | 2                                       | 25.0%      | 200            | 2.60           |
| 070 Jacobs Creek          | 6          |              | 63.28             | 3                                       | 25.0%      | .158           | 2.59           |
| 258 Great Onyx            | 6.         | 4 · 3        | 66.78             |   | 50.0%      | .333           | 2.55           |
| 300 Oconoluftee           | 10.        | 7            | 50.0%             | . 1                                     | .33.0%     |                | 3.00           |
| 082 Blackwell             | 7          | 2            | 70.08             | 4                                       | 57.18      |                | 2.66           |
| 109 Golconda              | -5         | 4            | 28.6%             | 2                                       | 100.0%     | . 280          | 2.70           |
| 009 Cass                  | 11         | 10           | :80:08:<br>:00:08 | 1                                       | 25.0%      |                | 2.50           |
| 098 Ouachita              |            | ΤÔ           | 90.98             | . 6                                     | 40.0%      | .546           | 2.20           |
| 305 Treasure Lake         | 3          | .2<br>3<br>3 | 66.78             | 1                                       | 50.0%      | .333           | 4.32           |
| 051 Pine Ridge            | 4          | 3            | 75.0%             | 1                                       | 33.3%      | .250           | 2.50           |
| 046 Trapper Creek         | 4          | 3 ·<br>4     | 33.38             |   | -          |                |                |
| 088 Boxelder              | 4.<br>4.   | 3            | 100.08            | 3                                       | 75.0%      | .750           | 2.48           |
| 172 Anaconda              | 4.<br>3    | 3            | 75.0%             | 3                                       | . 100.0%   | .750           | 2.30           |
| 243 Collbran              |            | 1.           | 33.38             | 1.                                      | 100:08     | . 333          | 2.30           |
| 323 Weber Basin           | 15         | 9            | 60.0%             | 6.                                      | 66.7%      | .400           | 3.17           |
| 064 mimbalin              | 13         | . 7          | 53.8%             | 3                                       | 42.9%      | .231           | 3.33           |
| 064 Timber Lake           | 20         | . 16         | 80.0%             | 8                                       | 50.0%      | .400           | 2.94           |
| )78 Curlew                | 10 .       | 8            | 80.0%             | 4                                       | 50.0%      | .400 ·         | 3.40           |
| 45 Wolf Creek             | 17         | 14           | 82.4%             | 7                                       | 50.0%      | .412           | 3.32           |
| 251 Marsing               | - 9        | . 8.         | 88.9%             | 4 .                                     | 75.0%      | . 667°         | 2.54           |
| 40 Fort Simcoe            | 4          | 1<br>6<br>2  | 25.0%             | -                                       | -          |                | s <del>-</del> |
| 343 Columbia Basin        | 9          | 6            | 66.7%             | 2 '                                     | 33.3%      | .222           | 3.75           |
| 54 Albuquerque            | . 6        |              | 33.3%             | 1                                       | 50.0%      | .167           | 2.50           |
| 76 Tongue Point           | 8          | 4            | 50.0%             | 2 .                                     | 50.0%      | 250            | 3.00           |
| 31 Woodstock              | ĭ          | 1<br>3<br>1  | 100.0%            | -                                       | -          | . <del>-</del> | -              |
| 36 Whitney Young          | 3          | 3            | 100.0%            | 2                                       | 66.7%      | .667           | 3.59           |
| 352 Atlanta               | 1          | 1            | 100.0%            | 1                                       | 100.0%     | , 1.000        | 2.90           |
| 16 Cincinnati             | · 23       | 15           | 65.2%             | · 9                                     | 60.0%      | .391           | 2:41           |
| 318 Cincinnati            | 2          | 0            | C                 | -                                       |            |                | ,              |
| 11 El Paso                | 22         | 16           | 72.78             | 11                                      | 68.8%      | .500           | 2.47           |
| 13 El Paso                | 2          | 2            | 100.0%            | 2                                       | 100.0%     | 1.000          | 2.47           |
| 57 Tulsa                  | 1          | 1            | 100.0%            | 1 .                                     | 100.0%     | 1.000          | 2.50           |
| 40 Kicking Horse          | <b>. 2</b> | 0 ~          | • 0               | , <del>-</del>                          |            |                |                |
| 42 San Jose               | 23         | 17           | 73.98             | 14                                      | 82.4%      | .609           | 3.30           |
| 43 San Jose               | . 1        | 1.           | 100.0%            | 1                                       | 100.0%     | 1.000          | 3.00           |
| 46 San Jose               | 1 .        | 0            | 0 .               | • =                                     |            |                |                |
| 06 Hawaii                 | ·5         | 3            | 60.0%             | 2                                       | 66.78      | .400           | 3.14           |
| 06 Breckenridge           | 1          | Ō            | 0                 | _                                       | -          |                |                |
| 05 Atterbury              | 130        | 70 ·         | 53.8%             | 36·                                     | 51.4%      | .277           | 2.88           |
| 03 Gary                   | 47         | 36           | 76.68             | 19                                      | 52.8%      |                | 2.68           |
| 10 Clearfield             | 157        | , 98.        | 62.4%             | : 44                                    | 44.98      | .280           | 2.82           |
| TOTAL                     | 655        | 413          | 63.1%             | 211                                     | 51.1%      | .322           | 2.84           |

| · · · · · · · · · · · · · · · · · · · | 03- | -A,           | LAUNDRY/    | MACHINE     | WORKER   | (MALE)   |               |             |
|---------------------------------------|-----|---------------|-------------|-------------|----------|----------|---------------|-------------|
|                                       | · ( | #<br>Cat<br>I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| 905 Atterbury                         |     | 1             | - 0         | 0           | . ==     |          | ,             |             |



|     | . W-2 " p |      | 7te - 1 | - 112 Fet - | *     |         |
|-----|-----------|------|---------|-------------|-------|---------|
| 03B | CUSTO     | DIAL | MAIN    | ITENAN      | ICE ( | (MALES) |
|     |           |      |         |             |       |         |

| Land to the second            | Cat<br>I               | Placed         | Placed_       | JTM         | JTM              | P/JTM<br>Rate  | JTM<br>Wage  |
|-------------------------------|------------------------|----------------|---------------|-------------|------------------|----------------|--------------|
| 350 Harpers Ferry             | 4:                     | 2              | 50.08         | . 1         | 50.0%            | .250           | 3.62         |
| )31:Pine:Knot                 | 17                     | ··- 6 .        | 35.0%         | ī           | 16.78            | .060           | 2.60         |
| 151 Fine and                  | 10                     |                | 80.08         |             | 25.0%            | /.200          | 2.60         |
| )59 Schenck                   | 19                     | 12             | 24.08         | 2 2         | 16.78            | .040           | 2.60<br>2.73 |
| )70 Jacobs Creek              | +5                     | 4              | 66.78         | . 2         | 50.0%            | .333           | 2.55         |
| 258 Great Onyx                | 6<br>6                 | _              | 50.0%         | . ' ī       | 33.0%            | . 250          | 3.00         |
| 300 Oconoluftee               | - 8.                   | 3<br>6         | 75.08         |             | 50.0%            | .375           | 2.88         |
|                               | <del>-</del> 7         |                | 28-68         |             | 100.0%           | 286            | 2.70         |
| 082 Blackwell<br>109 Golconda | 5                      | Ā              | 80.0%         | ī           | 25.0%            | .200           | 2.50         |
|                               | 11                     | 10             | 91.08         | . 2         | 20.0%            | .180           | 2.30         |
| 009 Cass                      | 3                      | 2              | 66.78         | 2<br>1      | 50.0%            |                |              |
| 098 Ouachita                  | <u>ي</u><br>4          | - 3            | 75.0%         | ī           | 33.38            | .250           | 2.50         |
| 305 Treasure Lke              | 9                      | - 3<br>3       | 33.38         | _           | -                |                | 4            |
| 051 Pine Ridge                |                        | - <del>-</del> | 100-0%        | <b>2</b> -  | <b>50∵0%</b>     | 500            | 2.72         |
| 046 Trapper Creek             | <b>4</b>               | 4              | 75.0%         | 3           | 100.0%           | .750           | 2.30         |
| 088 Boxelder                  | . 3                    | . 1            | 33.38         | 1           | 100.08           | .330           | 2.30         |
| 172 Anaconda                  |                        | 9              | 60.08         | ~ 6         | 66.78            | .400           | 3.17         |
| 243 Collbran                  | 15                     |                |               | ~ 0         | 42.98            | 232            | 3.33         |
| 323 Weber Basin               | 13                     | 7              | 54.0%         | E           | 31.38            | .250           | 3.11         |
| 064 Timber Lake               | 20                     | 16             | 80.08         | . 3         | 50.0%            |                | 3.40         |
| 078 Curlew                    | 10                     | 8              | 80.0%         | . 4         | 42.98            | .353           | 3.37         |
| 145 Wolf Creek                | 17                     | . 14           | 82.4%         | , 6<br>6    |                  | .353<br>.667   | 2.54         |
| 251 Marsing                   | 9                      | 8              | 88.9%         | , 6         | 75.0%            | • • • • • •    | ~ . J Ţ      |
| 340 Fort Simcoe               | 4                      | · 1            | 25.0%         | _           | / <del>-</del> , | . 222          | 3.75         |
| 343 Columbia Basin            | 9                      | 6 '            | 66.7%         | 2           | 33.3%.           | .200           | 2.50         |
| 754 Albuquerque               | 5                      | 2              | 40.0%         | 1           | 50.0%            | • ZUU          | 2.50         |
| 776 Tongue Point              | 8                      | . 4            | 50.0%         | -           | , <b></b> .      |                | •            |
| 831 Woodstock                 | 1                      | 1              | 100.0%        | _           | -                | . <del>-</del> | •            |
| 836 Whitney Young             | 3                      | . 3            | 100.0%        | =           | 46 56            | 205            | . 2 26       |
| 816 Cincinnati                | <b>23</b> <sup>^</sup> | 15             | 65.2%         | 7           | 46.78            |                | 2.38         |
| 811 El Paso                   | 22                     | , <b>16</b>    | 72.78         | 9           | 56.3             | .409           | 2.47         |
| 813 El Paso                   | 2                      | ′ <b>2</b>     | 100.0%        | ~2          | 100.0%           | 1.000          | 2.47         |
| 840 Kicking Horse             | 2                      | - 0            | ' O           | _           | -                |                | 2.00         |
| 442 San Jose                  | 9                      | <b>6</b> ·     | 66.78         | 5           | 83.3%            | .556           | 3.20         |
| 446 San Jose                  | 1                      | 0              | 0             |             | ` <b></b>        | -              | . "          |
| 8( Hawaii                     | , 5                    | 3              | 60.Q <b>%</b> | -           | -                |                | •            |
| 906 Breckenridge              | 1                      | : 0            | . 0           | _           | •                | -              |              |
| 905 Atterbury                 | 129                    | · 70           | 54.3%         | · <b>29</b> | 41.48            | .225           | 2.87         |
| 903 Gary                      | 47                     | 36             | 76.68         | . 16        | 44.48            | .340           | - 2.73       |
| 910 Clearfield                | 157                    | 98             | 62.48         | 36          | 36.7             | .229           | 2.86         |
| TOTAL                         | 634                    | 398            | 62.8%         | 162         | 40.7%            | .227           | 2.84         |

|    |         | A , +4 + | <u> </u>                                | اقى ئەرىكىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدىدى | 03-F, M | AID, GENER | RAL (MAI | Æ)        |               |             |
|----|---------|----------|---|--|---------|------------|----------|-----------|---------------|-------------|
|    | 8       |          | • · · · · · · · · · · · · · · · · · · · | Cat<br>I                                       | Placed  | * Placed:  | #<br>JTM | \$<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| 85 | 7 Tulsa |          |   | 1  | 1       | 100.0%     | 1        | 100.0%    | 1.000         | 2.50        |

|            |                 | 03-K,     | TEACHER     | NURSERY     | SCHOOL   | (MALE)   |               | •           |
|------------|-----------------|-----------|-------------|-------------|----------|----------|---------------|-------------|
| 2 . 2      |                 | Cat-<br>I | #<br>Placed | §<br>Placed | ‡<br>JTM | ş<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| Te all the | 754 Albuquerque | 1         | 0           | 0,          | .=       |          | -             | - 1         |

|  | <u> </u>          | <u> </u>    | -X, OTHER                          | (MALE    | B) .                      | ,                      |                      |
|--|-------------------|-------------|------------------------------------|----------|---------------------------|------------------------|----------------------|
| 1000   | Cat<br>I          | Placed      | Placed                             | ‡<br>JTM | ş<br>Jîm                  | P/JTM<br>Rate          | JTM<br>Wage          |
| 300 Oconaluftee<br>852 Atlanta<br>442 San Jose<br>443 San Jose | 2<br>1<br>14<br>1 | 1<br>1<br>1 | 50.08<br>100.08<br>78.68<br>100.08 | 1 9 1    | 100.0%<br>81.8%<br>100.0% | 1.000<br>.643<br>1.000 | 2.90<br>3.36<br>3.00 |
| TOTAL  | 18                | 13          | . 77.28                            | 11       | 84.6%                     | .611                   | 3.29                 |

|  | of the property | man are observed to | -4-4      | The state of the s |                  |  |
|--|-----------------|---------------------|-----------|--|------------------|--|
| `\``\`T TY\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |                 | A *****             | ~~~~      | ~~~~~  |                  | (FEMALE)                               |
| 4 3 4 15 17 18 18                        | 111 475         | SEL                 | 1 ( 16: 4 | IN THILDS  | 'I' I 3 IN C *** | ************************************** |
| VACUATION.                               |                 | CLICA               | TOD:      | .UCUFA   |                  | - C P EPPEALIE                         |

| <b>8</b> | *           | Cat<br>I | #<br>Placed | Placed | ‡<br>JTM     | }<br>JTM | P/JTM<br>Rate | JTM.<br>Wage |
|----------|-------------|----------|-------------|--------|--------------|----------|---------------|--------------|
| 703      | Charleston  | 2        | 2           | 100.0% | 'n           | 50.0%    | -500          | 2.40         |
| 701      | Cleveland   | _3       | 2           | 66.7%  | <b>2</b>     | 100.0%   | .667          | 2.65         |
| 738      | Cleveland   | 1        | 1 `         | 100.0% | <del>-</del> |          | _             |              |
| 709      | Albüquerque | 7        | 5           | 71.48  | 1            | 20.0%    | .143          | 2.30         |
|          | Guthrie     | 40       | 19          | 47.5%  | 8 .          | 42.1%    | .200          | 2.23         |
| 702      | LA          | 5        | 3           | 60.0%  | 1.           | 33.3%    | .200          | 2.70         |
| 717      | Tongue Pt   | 14       | 6.          | 42.9%  | 4            | 66.7%    | .286          | 2.92         |
|          | Atlanta     | 1.       | 1           | 100.0% | -            | -        | _             |              |
| 853      | Atlantà     | 1        | . 0         | . 0    | -            | . 7      | •             |              |
| 926      | Atterbury   | 3        | 2           | 66.7%  | 1,           | 50.0%    | •333          | 2.30         |
|          | TOTAL       | ; 77     |             | 53.2%  | 18 '         | 43.9%    | .234          | 2.47         |

03-A, LAUNDRY/MACHINE WORKER (FEMALE)

|                | Cat<br>I | #<br>Placed | %<br>Placed | #<br>'JTM  | %<br>JTM       | P/JTM<br>Rate | JTM<br>Wage |
|----------------|----------|-------------|-------------|------------|----------------|---------------|-------------|
| 703 Charleston | 1        | 1           | 100.0%      | · - /      | /              |               |             |
| 701 Cleveland  | ī        | ī           | 100.0%      | 1          | 100.0%         | 1.000         | 3.30        |
| 715 Guthrie    | 1        | 0 ,         | 0           | -          | <del>-</del> ` | -             | -           |
| 717 Tongue Pt  | 2        | . 0         | 0           | <b>-</b> \ | -              | <b>-</b>      | , <b>-</b>  |
| TOTAL          | 5        | 2           | 40.0%       | 1          | 50.0%          | .200          | 3.30        |

03-B. CUSTODIAL MAINTENANCE (FEMALE)

| -                              | Cat<br>I                 | #<br>Placed | \$<br>Placed                   | #<br>JTM | . %.<br>JTM | P/JTM<br>Rate | JTM<br>Wage  |
|--------------------------------|--------------------------|-------------|--------------------------------|----------|-------------|---------------|--------------|
| 717 Tongue Pt<br>926 Atterbury | . <b>8</b><br>. <b>3</b> | 6<br>2      | 75.0 <b>%</b><br>66.7 <b>%</b> | 4        | 66.7%       | .500<br>.333  | 2.92<br>2.30 |
| TOTAL                          | 11                       | 8           | 72.78                          | 5        | 62.5%       | .455          | 2.80         |

03-F, MAID, GENERAL (FEMALE)

| The State of the S | Cat<br>I | Placed | Placed | ‡<br>JTM | 8   | P/JTM<br>Rate | JTM. Wage |
|--|----------|--------|--------|----------|-----|---------------|-----------|
| 703 Charleston   | 1        | 0      | 100.0% | ÷        | * - |               | 7         |

03-H, PATROLMAN/POLICEMAN (FEMALE)

| I |                                |        | . ,     | ~ | # '     | <del></del> | . 01        | . , |                | · ·   |       |
|---|--------------------------------|--------|---------|---|---------|-------------|-------------|-----|----------------|-------|-------|
| ١ |                                |        |         | - | Cat     | · · · · · · | 8           | #   | ` <b>&amp;</b> | P/JTM | JTM   |
| i | : <u>(</u> ــــب <del>سة</del> | ***    | <u></u> |   | I `     | Placed      | Placed      | JUM | JTM            | Rate  | Wage: |
| I | 70.                            | 2 LA   | ,       |   | <u></u> |             | · · · · · · |     |                |       | -     |
| ١ | ,,, o,                         | é fiu. |         | • | 2       | 0 '         | , 0         | _   | •              | •     |       |

03-J, TEACHER AIDE (FEMALE)

| <del></del>                   | <del></del> | <del></del> | <del></del> |             | 7         |          | <del></del>   |             |
|-------------------------------|-------------|-------------|-------------|-------------|-----------|----------|---------------|-------------|
|                               |             | Cat<br>I    | #<br>Placed | %<br>Placed | #`<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
| 701 Cls<br>709 Alk<br>853 Atl | uquerque    | 2 ,<br>5 1  | 1 3 .       | 50.0%       | 1 -       | 50.0%    | .250          | 2.00        |
| TOT                           | PAL         | . 8         | 4°          | 50.0%       | 1.        | 25.0%    | .175          | 2.00        |

03-K, TEACHER, NURSERY SCHOOL (FEMALE)

|            | `.          | Cat<br>I | #<br>Placed | %<br>Placed | ‡<br>JTM | ` &<br>_ jtm * | P/JTM. Rate | JTM<br>Wage |
|------------|-------------|----------|-------------|-------------|----------|----------------|-------------|-------------|
| ~738       | Cleveland   | 7        | 7           | 100.0%      |          |                |             | , ii -      |
|            | Albuquerque | ī        | î           | 100.0%      | _        | _              | -           | _           |
| 715        | Guthrie     | 39       | 19          | 48.7%       | 6        | 31.6%          | .154        | 2.25        |
| <b>702</b> | LA          | 2        | 2           | Î100.0%     | 1        | 50.0%          | .500        | 2.70        |
| 717        | Tongue Pt   | 3        | 0           | 0           | - `      | <b>-</b>       | -           | -           |
|            | TOTAL       | 46       | 23          | 50.0%       |          | 30.48          | .152        | 2.31        |

| , |   | Ö | 3 | j~ | X,  | . ( | OTE   | ER     | (F | EMAI     | Ē)     |       | <br>٠. |
|---|---|---|---|----|-----|-----|-------|--------|----|----------|--------|-------|--------|
|   | , | • |   | e. | 7 - |     | 30 11 | 2 1 12 |    | \$ *- st | 14 1 1 | 200 1 | _      |

|                              | Cat<br>I | Placed | Placed | JTM | 8      | P/JTM<br>Rate | JTM<br>Wage |
|------------------------------|----------|--------|--------|-----|--------|---------------|-------------|
| 709 Albuquerque              | i        | 1      | 100.08 | i   | 100.0% | 1.00          | 2.30        |
| 717 Tongue Pt<br>851 Atlanta | 1        | 0      | 100.08 | -   | m)     |               |             |
| . TOTAL -                    | •4,,,    | 3      | 75.0%  | 1 . | 33.3%  | .250          | 2.30        |

CLUSTER 04, FORESTRY AND FARMING (MALE)

|        | <u> </u>      | Cat. | Placed | Placed | JTM       | JTM     | P/JIM<br>Rate | JTM<br>Wage    |
|--------|---------------|------|--------|--------|-----------|---------|---------------|----------------|
| 172    | Anaconda      | 1    | 1      | 100.0% | · .       |         | 4             | =              |
|        | Timber Lake   | 2.   | · ī    | 50.0%  |           | -       | <b>4</b>      | · · · <u>-</u> |
|        | Curlew        | 15   | 13     | 86.7   | 10        | 76.9%   | .666          | 3.50           |
|        | Angell        | 27   | 22     | 81.5   | 15        | 68.24   | .556          | 3.61           |
|        | Wolf Creek    | :66  | 58     | 87.9   | 44        | 75.98   | .667          | 3.26           |
| B01    |               | 2    | ĭ      | 50.0%  | -         | ,       |               | -              |
|        | Tulsa         | ī    | ō      | . 0    | <i>-</i>  | <b></b> |               | _              |
|        | Kicking Horse | ~íī  | 5.     | 45.5%  | 2         | 40.0%   | .182          | 2.93           |
| 411    | Portland      | 6    | 4.     | 66.78  | $ar{f 1}$ | 25.0%   | .167          | 2:40           |
|        | Portland      | · 2  | 2      | 100.0  | ī         | 50.0%   | .500          | 2.50           |
|        | Breckenridge  | 50   | 24     | 48.0%  | · 6       | 25.0%   | .120          | 2.67           |
|        | Parks         | 1    | 1      | 100.0% | -         |         | •             | ,              |
| * unit | TOTAL         | 184  | 132    | 71.78  | . 79      | 59.9    | .429          | 3.28           |

04-B, NURSERY WORKER (MALE)

| · • , |              | Cat | Placed     | %<br>Placed | jtm | JTM              | P/JTM<br>Rate | JTM<br>Wage |
|-------|--------------|-----|------------|-------------|-----|------------------|---------------|-------------|
| 064   | Timber Lake  | ž   | 1          | 50.0        | -   | -                | -             | · · · ·     |
| 801   | 'NJ          | 2   | 1          | 50.0%       | - ` | · •              | -             | -           |
|       | Tulsa        | 1   | 0          | 0           | -   | * - <del>-</del> | -             | -           |
| 411   | Portland     | `6  | 4          | 66.7%       | 1   | 25.0%            | .167          | 2.40        |
|       | Portland     | 2   | <b>2</b> . | 100.0%      | 1   | 50.0%            | .500          | 2.50        |
|       | Breckenridge | 50  | 24         | 48.0%       | 6   | 25.0%            | .120          | 2.67        |
|       | Parks        | . 1 | , <b>1</b> | 100.0%      | -   | -                | -             |             |
|       | TOTAL        | 64  | 33         | 51.6%       | 8   | 24.28            | .125          | 2.62        |

04-C, FORESTRY AND CONSERVATION (MALE)

|                   | Cat<br>1      | Placed | Placed | JTM .           | JTM   | P/JTM<br>Rate | JTM<br>Wage |
|-------------------|---------------|--------|--------|-----------------|-------|---------------|-------------|
| 172: Anaconda     | 1             | ı      | 100.0  | -               |       | •             | _           |
| 078 Curlew        | 15            | 13     | 86.7   | 10 <sup>-</sup> | 76.9% | .667          | 3.50        |
| 144 Angell        | <b>.</b> 26 . | 21     | 80.8%  | ' 13            | 61.9% | .500          | 3.20        |
| 145 Wolf Creek    | 66            | . 58   | 87.98  | · <b>4</b> 0    | 69.0% | .606          | 3.30        |
| 840 Kicking Horse | 11            | 5 ~    | 45.5%  | • 2             | 40.0% | .182          | 2.93        |
| TOTAL             | .119          | . 98 . | 82.4%  | 65              | 66.3% | .546          | 3.30        |

04, FORESTRY AND FARMING (FEMALE P/JTM Cat JTM Placed Placed JTM JTM Rate Wage 32 24 75.0% 14 58.0% Total .438 3.45 04-B, NURSERY WORKER Portland (R) Portland (NR) Breckenridge .5000 75.0% 66.78 2.82 100.0% 75.0% 2.21 5 0 04-C, FORESTRY AND CONSERVATION Angel1 15 14 93.3% 6 42.9% ~.400 4.06

|  | CLUSTER 04 | , FORES             | TRY AND F               | ARMING | (FEMALE)                |                      |                      |
|--|------------|---------------------|-------------------------|--------|-------------------------|----------------------|----------------------|
|  | Cat        | #<br>Placed         | %.<br>Placed            | JIM    | JTM_                    | P/JTM<br>Rate        | JTM<br>Wage          |
| 146 Angell<br>415 Portland<br>417 Portland<br>934 Breckenr | . 4        | 14<br>; 6<br>4<br>0 | 93.3%<br>75.0%<br>10.0% | 3.     | 42.9%<br>83.3%<br>75.0% | .400<br>.625<br>.750 | 4.06<br>3.46<br>2.23 |
| TOTAL  | 32         | 24                  | 75.0%                   | 14     | 58.0%                   | .438                 | 3.45                 |

|  | 04-1        | B, NURS     | BRY WORK             | er (fe | MALE)                          |                | * |
|--|-------------|-------------|----------------------|--------|--------------------------------|----------------|---|
|  | Cat         | Placed      | Placed               | JTM    | JTM                            | P/JTM<br>Rate  | JTM<br>Wage                             |
| 415 Portland<br>417 Portland<br>934 Breckenridge | 8<br>4<br>5 | 6<br>4<br>0 | 75,0%<br>100.0%<br>0 | 4 3 -  | 66.7 <b>%</b><br>75.0 <b>%</b> | .500 /<br>.750 | 2.82,<br>2.21                           |
| TOTAL  | 17          | .10         | 53.8%                | 7 `    | 70.0%                          | . 412          | 2.56                                    |

| 1 '        | 04-C, FO | RESTRY A    | ND CONSE    | RVATI    | ON (FEMA | LE)             |             |
|------------|----------|-------------|-------------|----------|----------|-----------------|-------------|
|            | Cat<br>I | ‡<br>Placed | %<br>Placed | #<br>JTM | 3<br>JTM | 9 P/JTM<br>Rate | JTM<br>Wage |
| 146 Angell | . 15     | 14          | 93.3        | 6        | 42.98    | , .400          | 4.06        |

|       |      |     |      |      | ā.'2\ |
|-------|------|-----|------|------|-------|
| . 05, | FOOD | SER | /ICE | (MAL | 13)-  |
|       |      | •   |      |      | **    |

| * ******       | وسعدود به - مراد المهالة ومرموموناه في د |                | U5, FOOL       | 113             |          | 717 (1 33 2)       | <u> </u> | م دوور                                  |
|----------------|--|----------------|----------------|-----------------|----------|--------------------|----------|---|
|                |  | Cat            |                |                 |          |                    | P/JTM    | in a gracuit                            |
| Carrier .      | er en arroue et etc. Le la graye         | I              | Placed         | Placed          | JTM      | _ TM               | Rate     | JTM Wage                                |
| 161            | Flatwoods                                | 136            | 10             | A NA CONTRACTOR |          |                    |          | * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|                |  | 12             | 12             | 100.0           | 5        | .41.78             | .417     |   |
| . 031<br>. 031 | Harpers Ferry                            | 5              | 4.             | 80.0            |          | 75.0%              | .600     | 2.95                                    |
|                | Pine Knot                                | 15-            |                | .467            |          | 57.1%              | .266     | 2.22                                    |
| . U26          | Lyndon Johnson                           |                | · 6            | .857            | 4        | 66.78              | . 571    | · · · //                                |
|                | Schenck                                  | 11             | 8              | 72.78           | ′ 6      | 75.0%              | .545     | 3:05                                    |
| (U/U)          | Jacobs Creek                             | 8              | . 7            | 87.58           | · '3、    | 42.98              | .375     | 2.86                                    |
| 258            | Great Onyx                               | 15             | .9,            | 60.0            | . 5      | 55.6%              | .334     | 2.46                                    |
|                | Oconaluftee                              | 15             |                | 66.78           | 6-       | 60.0%              | .400     | 2.34                                    |
| ₹040           | Lydick Lake                              | 1.             | • 1            | 100.0           | 0        | 0                  | 0        | . Č                                     |
|                | Blackwell                                | 11             | 4              | 36.4%           | . 2      | 50.0%              | .182     | 3:00                                    |
| 109.           | Golconda                                 | 66             | · 2            | 33.3            | 2        | 100.0%             | 333      | 2.52                                    |
| 009            | Cassadaga.                               | 11             | . 8            | 72.78           | 4        | 50.0%              | .364     |   |
| 098            | Ouchita                                  | 9              | . 9 .          | 100.0           |          | 55.68              | .556     | 2.58                                    |
| 305            | Treasure Lake                            | 16             | 15             | 93.88           | 5<br>12  | .=: 80.0 <b>%</b>  | .750     | 2.50                                    |
| 051            | Pine Ridge                               | 10             | 7 74           | 40.0            | 3        | 75,0%              |          | - 2 -∧∧                                 |
| 270            | Mingo                                    | 15             | -11            | 73.3            | 10       | 75,06              | .300     | 3.00                                    |
|                | Trapper Creek                            |                | 9              |                 |          | 90.9               |          | 3.28                                    |
| 020            | Boxelder                                 | 13             |                | 60.0            | 3        | 33.3               | .200     |   |
|                | Anaconda                                 | 11             | 9 °<br>6.      | 69.2            | . 1      | 77.8%              | .538     | 3.35                                    |
| 242            | Allaconda.                               |                |                | 54.5            | 2        | 33.3%              | .182     | 2.77                                    |
|                | Collbran                                 | <b>5</b>       | <u> </u>       | 100.0           | 3        | 60.0%              | - 600    | 2.05                                    |
| 343            | Weber Basin                              | 21 `           |                | 71.48           | Ş        | 60.0%              | .429     | ≥† · =                                  |
|                | Timber Lake                              | 29             | 18             | 62.1%           | 12       | ຼ66.7∜ .           | 414      |   |
|                | Curlew                                   | .9 ′           | 6,             | 66. <b>.7</b> % | 4 .      | <b>" 166.7</b> € 1 | .444     | 4.97                                    |
|                | Angell                                   | 25             | 17             | 68.08 =         | 13       | 76.5%              | .520     | -                                       |
|                | Wolf Creek                               | · 17           | 14             | 82.4            | 10       | 71:48              | .588     | 3.48                                    |
| 251            | Marsing                                  | 30             | ·24 -          | . 80.0 <b>%</b> | 16       | 66.78              |          | 2.63                                    |
|                | Fort Simcoe                              | 13             | . 9            | 69.2            | . 7      | 77.8%              | .539     | 3.74                                    |
| 343            | Columbia Basin                           | 41             | 28             | 68.3%           | 15       | 53.6%              | .366     | 3.35                                    |
| 770            | Keystone                                 | 3              | 3              | 100.0%          | 2        | 66.78              | .667     | 2.25                                    |
| 750            | Excelsion                                | ` .            | ·*             | ,======         | ·        | 0,000              |          |   |
| 33             | Springs                                  | . 9            | * <b>8</b> · · | 88'.98          | 4        | 50.0%              | .445     | 2.73                                    |
| 776            | Tongue Point                             | . 9<br>3       | 3              | 100.0           | 3        | 100.0              | 1.000    |   |
|                | New Jersey                               | 12             | Š              | 41.78           | A .      | 80.08              | .333     | 2.71                                    |
| 831            | Moodstock                                | ī              | 1 -            | 100.0           | •        |                    |          | 2.75                                    |
|                | Whitney Young                            | 7              | 2              | 28.6%           | <b>+</b> | 100.0%             | 1.000    | 2.50                                    |
| RIK.           | Cincinnati                               | 13             | 9              |                 | Ţ        | 50.0%              | .143     | 2.30                                    |
| 817~           | Cincinnati                               |                | _              | 69.2            | 4        | 44.44              | .307     | 2.90                                    |
| OTA A          | El Paso                                  | . 1.           | 0              | . 0             | 0 -      | 0                  | ~_0      | ~0                                      |
|                |  | 17             | 11             | 54.78           | ٠8       | 72.7%              | .471.    | 2.42                                    |
| DT2            | El Paso                                  |                | 1              | 100.0           | ļ        | 100.0%             | , 1.000  | 2:30                                    |
| 04U"]          | Kicking Horse                            | 12             | · . 6          | 50.0%           | 4        | 66.78              | .333     | 2.68                                    |
| 442            | San Jose                                 | -31            | · 25           | 80.6            | 20       | 80 <b>; 0%</b>     | .645     | 3.95                                    |
| 443            | San Jose                                 | <sup>-</sup> 1 | 1              | 100.0           | ļ        | 100.0%             | 1.000    | 3.65                                    |
|                | San Jose                                 | 5 ·            | · 2 ·          | 40.0%           | ì.       | 50.0%              | .200     | 3.47                                    |
|                | <b>Bawaii</b>                            | <u>.</u> 5     | 3              | 60.0%           | 2        | 66.78              | .400     | -                                       |
|                | Portland                                 | - 4            | . 3 ,          | 75.0%           | · 3      | 100.04             | .750     | 2.70                                    |
| 113. j         | Portland .                               | · 3            | .2.            | 66.78           | . 2      | 100.0              | .667     | 2.50                                    |
|                | Breckenridge                             | 105            | 64             | 61.0%           | 32       | 50.0%              | × .305   | 2.47                                    |
| 05 1           |  | <b>J</b> 125   | <b>56</b>      | 44.8            | 16       | 28.68              | .128     |   |
| 03.0           | ary                                      | 84             | 50·            | 59.5            | 34       | 68.0%              |          | 2.61                                    |
| 10 6           | Clearfield                               | 131            | 83             | 63.48           | 48       |                    | .405     | 2.61                                    |
|                | anta Rosa                                | 15             | 13             |                 |          | 57.8%              | .366     | 2.86                                    |
|                | with wat.                                |                | '- TO ,        | £86.7 <b>♦</b>  | 11       | . 84.6%            | .733     | 5 <b>.44</b> ,                          |
| 'n             | POTAL                                    | 990            | 634            | .640%           | 384      | 60.6%              | .388     | · -                                     |

ERIC AFULL TRANSPORTED

|   | 334 | * |     |                     |       | 2.54 | ·  |   | ~ 255 | 20 |    |
|---|-----|---|-----|---------------------|-------|------|----|---|-------|----|----|
| , | 110 | - | - 4 | - ·                 | 4.5   |      | •^ | • | -     | -  |    |
|   |     | • | _   | $\mathbf{A}^{\vee}$ | . * * | ш.   | Δ. |   | '1'   | ж  | ٠. |
|   |     |   |     |                     |       |      |    |   |       |    |    |

| And the second s | Čat.       | Placed      | Placed | JIM        | JTM.   | P/JTM<br>Rate | JTM              |
|--|------------|-------------|--------|------------|--------|---------------|------------------|
| 243 Collbran   | î:         | 1           | 100.08 | <u>)</u>   | 100.0% | 1.000         | 1.40             |
| 145 Wolf Creek   | Ž          | 1           | 50.0%  | <b>/</b> 1 | 100:08 | 500           | 3.00             |
| 251 Mawsing  | 1          | 1           | 100.0% | 1          | 100.0% | 1.000         | 1.00             |
| 343 Columbia Basan   | 1          | ĺ           | 100.08 | . • 0      | Û      | 0             | <b>:0</b> ::     |
| 058 Lyndon Johnson   | .2,        | 2 `         | 100.0% | 1          | 50.0%  | .500          |                  |
| 805 Treasure Lake  | .1         | . 1         | 100.0% | 0 .        | 0      | 0             | <b>.</b>         |
| 323 Weber Basin  | 1          | <b>~</b> 1. | 100.0% | 1.         | 100.0% | 1.000         |                  |
| 811 El Paso  | Ţ          | .0          | 0      | 9          | 0      | 0             | 5 50             |
| 919 Santa Rosa   | 5          | · 3 /       | 60.0%  | 2          | 66.78  | .400          | 6.50             |
| TOTAL  | 1 <b>5</b> | 11          | 73.38  | 7          | 63.6%  | .467          | ; <del>, ,</del> |

| and the traces        | Sirter (see recover recover) | <u> </u>       | :U5~B%             | COOK (M  | ALE)::*::               | and the second second second |         | د<br>میوند چارچاپ |
|-----------------------|------------------------------|----------------|--------------------|--|-------------------------|------------------------------|---------|-------------------|
| *** \( \frac{1}{3} \) | and the same of the same     | Cat            |                    | To any processing the second s | A THE STATE OF STATE OF | see in fina filosof en       | P/JTM   | JTM               |
|                       | w.                           | I              | Placed             | Placed .   | JTM                     | JTM                          | Rate    | Wage              |
| í Éi                  | Flatwoods                    | 12             | » <b>12</b>        | 100.0%   | 5                       | 41.78                        | 417     | Ó. E7             |
|                       | Harpers Ferry                | 5              | * 12<br>4          | 80.08  | 3                       |                              | .417    | 2.57              |
|                       | Lyndon Johnson               | 4              | 3                  |  |                         | 75.0%                        | .600    | 2.95              |
|                       | Schenck                      | ıi             | 8                  | 75.08  |                         | 33.38                        | .250    | , 2. ÓE           |
|                       | Jacobs Creek                 | - 8            |                    | 72.78  |                         | 75.08                        | .545    | 3.05              |
|                       | Great Onyx.                  | 12             | 7                  | 87.5%  | $\frac{1}{3}$           | 14.3%                        |         | 4.00              |
|                       | Oconaluftee                  | 14             | 10 '               | 58.3%  | 5<br>5                  | 42.9%                        | .250    | 2.36              |
| 10 A D                | Lydick Lake                  | i              | 10                 | 71.4%<br>100.0%  | <i>5</i>                | 50.0%                        | .357    | 2.41              |
| 040                   | Blackwell                    |                | 4                  |  | 0<br>1                  | 0                            | 0       | 2.00              |
|                       | Golconda                     | 11 6           |                    | 36.4%  |                         | 25.0%                        | 091     | 3.00              |
| TOA                   | Golconda                     |                | 2                  | 33.38  | 2 2                     | 100.0%                       | .333    | 2.52              |
| 000                   | Cassadaga                    | 11             | 8<br>9             | 72.78  |                         | 25.0%                        | .182    | 2.30              |
|                       | Ouchita                      | . 9            |                    | 100.0%   | 4                       | 44.4%                        | .444    | 2.53              |
| ,3U2:                 | Treasure Lake                | 15             | 14                 | 93.38  | 10                      | 71.4%                        | .667    | 2 00              |
| OST                   | Pine Ridge                   | .10            | 4                  | 40.0%  | 3                       | 75.0%                        | .300    | 3.00              |
|                       | Mingo                        | 15             | 11                 | 73.38  | 8                       | 72.78                        | .533    | . (=              |
|                       | Trapper Creek-               |                | - 7                | 53.88  | 2                       | 28.6%                        | .154    | 2.95              |
|                       | Boxelder                     | 13             | 9                  | 69.2%  | 6,                      | 66.7%                        | .462    | 3.58              |
|                       | Anaconda                     | - [11 <u>-</u> | _                  | 54.5%  |                         | 33.3%                        | .164    | 2.77              |
|                       | Collbran                     | . 4            | 4 .                | 100.0%   | 2                       | 50.0%                        | .500    | 2.37              |
|                       | Weber Basin                  | 19             | 13                 | 68.4%  | 8                       | 61.5%                        | .421    | 2.44              |
|                       | Timber_Lake                  | 28_            | 18                 | 64.38  |                         | 33.3%                        | .214    | 2.71              |
|                       | Curlew                       | 9;             | 6                  | 66.78  | 3 _                     | 50.0%                        | .333    | 5.86              |
|                       | Angell                       | 21             | 15                 | 71.4%  | 10 ~                    | 66.7%                        | .476    | 3.88              |
|                       | Wolf Creek                   | 14             | 12                 | 85.7%  | 8                       | 66.7%                        | .571    | 3.85              |
| 251                   | Marsing.                     | 28             | 22                 | 78.6%  | / 13                    | 59.1%                        | .464    | 2.91              |
|                       | Fort Simcoe                  | 13             | 9                  | 69.2%  | 7                       | 77.8%                        | .538    | 3.74              |
|                       | Columbia Basin               | 37             |                    | 70-38  | 13                      | 50.0%                        | .352    |                   |
|                       | New Jersey                   | 12             | 5                  | 41.7%  | 4                       | 80.0%                        | .333    | 2.75              |
|                       | Woodstock                    | 1              | 1                  | 100.0%   | 1                       | 100.0%                       | 1.000   | 2.50              |
|                       | Cincinnati                   | 13             | 9                  | ~69.28   | 2                       | 22.28                        | 154     | 2.65              |
|                       | Cincinnati\                  | 1              | 0                  | 0  | 0                       | 0                            | 0       | 0                 |
|                       | El Paso                      | 15.            | . <del>▼</del> _ ' | 73.3%  |                         | * 63.6%                      | .466    | 2.41              |
|                       | El Paso                      | 1              | 1                  | 100,0%   | 1                       | 100.0%                       | 1.000   | 2.30              |
|                       | Kicking Horse                | 11,            | _                  | 45.5%  | 2                       | 40.0%                        | .182    | 2:75              |
|                       | San Jose                     | . 2            | 2                  | 100.0%   | 2                       | 100.0%                       | 1.000   | 6.66              |
|                       | Hawaii                       | 4              | 2                  | 50.0%  | 71                      | 50.0%                        | ·.250 : | 3.05              |
|                       | Portland                     | 1              | 0 .                | 0  | 0                       | 0                            | . 0     | 0                 |
|                       | Portland                     | _1             | 1                  | 100.0%   | . 1                     | 100.0%                       | 1.000   | 2.50              |
|                       | Breckenridge                 | 57 ·           |                    | 59.6%  |                         | 47.18                        | .281    | 2.44              |
| 905                   | Atterbury **                 | 62             | 26                 | 41.9%  | . 9                     | 34.6%                        | .145    | 2.73              |
| 903                   | Gary                         | 47             | 26                 | 55.3%  | 16                      | 61.5%                        | .340    | 2.48              |
|                       | Clearfield                   | 63             | 40                 | 63.5%  | 23 `                    | 57.5%                        | .365    | 2.70              |
| 919                   | Santa Rosa                   | 5              | 5                  | 100.04   | , 4 4                   | 80.08                        | .800    | 4.66              |
| ΄,                    |                              |                | , •                | <del>- 1</del> -   |                         |                              | -       |                   |

**-** 135 **-**

| <br>     | -      | 4.    | 31 / | A > C. | Y    | 4    | Acres and | •  |
|----------|--------|-------|------|--------|------|------|-----------|----|
| <br>^-   | o rand |       |      |        |      |      |           | ٠, |
| <br>1115 | -      |       | 🛏    | AKK    | D' - | /MA  | T.PY      |    |
| <br>~    | 1.1    | ~ · · |      | AKE    |      | L MA |           | 1  |

|       | in the second | Cat<br>1    | Placed  | Placed | JTM:         | JTM    | P/JTM<br>Rate  | JTM.<br>Wage |
|-------|---------------|-------------|---------|--------|--------------|--------|----------------|--------------|
| 031   | Pine Knot     | 15          | 7       | 46.78  | 4            | 57.1%  | .266           | 2.22         |
| 144   | Angell        | 1.          | 0       | 0      | , <u>-</u>   | -      | 1111           | 7 (VE)       |
|       | Marsing       | ` 1         | 1       | 100.08 | -            |        | √ <b>, </b> ←, |              |
|       | Tongue Point  | 1           | 1.      | 100.08 | 1            | 100.0% | 1.000          | 3.25         |
| 411   | Portland      | 3           | 3       | 100.08 | 3            | 100.0% | 1.000          | 2.70         |
| 413   | Portland      | ` 2         | $1_{<}$ | 50.0%  | 1            | 100.0% | .500           | 2.50         |
| 906   | Breckenridge  | 47          | .29     | 61.78  | 8 ·          | 27.68  | .170           | 2.60         |
|       | Atterbury     | <b>63</b> · | 30      | 47.6%  | , <b>3</b> · | 10.0%  | .048           | 2.26         |
|       | Gary          | . 15        | · 8 ·   | 53:38  | 2            | 25.0%  | .133           | 3.12         |
|       | Clearfield    | √35         | 20      | 57.1%  | 8            | 40.08  | . 229          | 2.91         |
| 919   | Santa Rosa    | 1           | Î.      | 100.0% | <b>-</b> ;   | -      |                |              |
| pos / | TOTAL         | .184        | 101     | 54.98  | 30           | 29.7%  | .163           | 2.66         |

## 05-D, MEATCUTTER (MALE)

|                            | Cat<br>I | #<br>Placed | %<br>Placed    | jtm | ·     | P/JTM<br>Rate | JTM<br>Wage  |
|----------------------------|----------|-------------|----------------|-----|-------|---------------|--------------|
| 903 Gary<br>910 Clearfield | 22<br>30 | 16<br>21    | 72.7%<br>70.0% | 8   | 50.0% | .364          | 2.95<br>3.36 |
| TOTAL                      | 52       | 37          | 71.28          | 16  | 43.28 | .308          | 3.11         |

|                                     | #        | -F, PAKE | R, SECON    | D (MAL      | <u> </u>       |               | <del>-</del> |
|-------------------------------------|----------|----------|-------------|-------------|----------------|---------------|--------------|
|                                     | Cat<br>1 |          | %<br>Placed | #<br>JTM    | \$<br>JTM      | P/JTM<br>Rate | JTM<br>Wage  |
| 836 Whitney Young<br>910 Clearfield | 6        | . 1      | 16.7%<br>0  | . <b>*-</b> | . <del>-</del> |               | ·<br>•••     |
| 144 Angell                          | 1        | 1        | 100.08      | 1           | 100.0%         | 1.000         | 1.04         |
| TOTAL                               | . 8      | 2        | 25.0%       | 1           | 50.0%          | .125          | 1.04         |



|         | 4.4  | المؤلاف والمراس والمرازي والمراز والمرازية والمرازية | A 12 24 | المُونِّ مُونِّ مُونِّ مُونِّ مِنْ مُنْ مُنْ مُنْ مُنْ مُنْ مُنْ مُنْ مُ |
|---------|------|--|---------|--|
| O E A C |      | SHORTOR  | nan-i   | /MATON:  |
|         | CUUR | BRUKTUK  | LIBR. 2 | IMALE I''  |

|     | A STATE OF THE STA | 1 22.54 | Cat<br>1   | Place | ed Placed | JTM             | JTM     | P/JTM<br>Rate | JTM<br>Wage  |
|-----|--|---------|------------|-------|-----------|-----------------|---------|---------------|--------------|
|     | Great Onyx   | •       | . 2<br>. 1 | 2     | 100.08    | 1               | 50.0%   | •50 <u>0</u>  | 3.00         |
| 840 | Kicking Horse<br>San Jose  |         | 1 3        | 1 3   | 100.0     | $\frac{1}{1}$ : | 100.0%  | 1.000<br>-333 | 3:00<br>3:50 |
|     | San Jose   |         | 1          | ì     | 100.0%    | ī               | 100.0%  | 1.000         | 3.65         |
|     | TOTAL  | (       | 8.         | . 8   | 100.0%    | . 4             | . 50.0% | •500,         | 3.29         |

05-H, COUNTER GRILLMAN (MALE)

|              | # Cat # # # |        |        |     | 9      | P/JTM | JTM.   |
|--------------|-------------|--------|--------|-----|--------|-------|--------|
|              | 1           | Placed | Placed | JTM | JTM    | Rate  | Wage   |
| 144 Angell   | 1           | 0      | -      | `   |        | · •   | . 🛏    |
| 770 Keystone | 3           | 3 ° '  | 100.0% | 2   | 66.7%  | .667  | 2.25 4 |
| 442 San Jose | , <b>1</b>  | 1      | 100.0% | 1.  | 100.0% | 1.000 | 2.56   |
| TOTAL        | . 5         | 4      | 80.0%  | 3   | 7,5.0% | .600  | 2.35   |

05-T. DANTRY/SALAD (MALE)

|            |                            | Cat        | ‡<br>Placed | Placed | #<br>JTM   | \$<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|------------|----------------------------|------------|-------------|--------|------------|-----------|---------------|-------------|
| 046<br>750 | Trapper Creek<br>Excelsior | , <b>2</b> | 2           | 100.0  | 1          | 50.0%     | .5 <u>0</u> 0 | 2.85        |
|            | Springs                    | 1          | 0           | 0      | 0 .        | 0         | 0             | 0 -         |
| 343        | Columbia Basin             | 1          | 1           | 100.0% | 0          | • Ò       | 0             | Ō           |
|            | Hawali .                   | 1          | 1           | 100.0% | 1          | 100.0%    | 1.000         | 2.00        |
|            | Clearfield                 | ī          | ī           | 100.0% | , <u>ī</u> | 100.0%    | 1.000         | 1.00        |
|            | Santa Rosa                 | 2          | Ž .         | 100.0  | ī          | 100.0     | 1.000         | 6.87        |
| . •••      | TOTAL                      | 8          | 7           | 87:5%  | 4 -        | 57.18     | .500          | 2.93        |

05-X, OTHER (MALE)

| *    | The state of the s | Cat<br>1          | # Placed | Placed: | JTM:  | JTM    | P/JTM Rate   | JTM<br>Wage |
|------|--|-------------------|----------|---------|-------|--------|--------------|-------------|
| 300  | Oconaluftee  | . <1              | 0        | 0       | 0     | Ó      | 0            | . :0        |
|      | Timber Lake  | $\cdot$ $\bar{i}$ | Ŏ.       | ŎŴ      | . Ŏ   | . 0    | ~ <b>ŏ</b> ` | , O.        |
|      | Excelsion  | •                 | ,        | , ,     | ,     |        |              |             |
|      | Springs  | 8                 | 8        | 100.0%  | · 3 · | 37.5%  | .375         | 2.81        |
| 776  | Tongue Point   | <b>'2</b>         | .2       | 100.0%  | l     | 50.0%  | .500         | 2.53        |
| 836  | Whitney Young  | 1 ·               | 1        | 100.0%  | 1     | 100.0% | 1.000        | 2.30        |
| 442  | San Jose   | 25                | 19       | 76.0%   | 13    | 68.4%  | .520         | 3.84        |
| 446  | San Jose   | .5                | 2        | 40.0%   | 0     | 0      | . 0          | Ò           |
| 058. | Lyndon Johnson   | 1                 | , 1      | 100.0%  | 1.    | 100.0% | 1.000        | 9.99        |
|      | Weber Basin  | . 1               | 1        | 100.0%  | 0     | . 0    | . 0          | Ò           |
| 145  | Wolf Creek   | 1                 | 1        | 100.0%  | 1     | 100.0% | 1.000        | 1.04        |
| 919  | Santa Rosa   | 2                 | 2        | 100.0%  | 2     | 100.0% | 1.000        | 5.49        |
|      | TOTAL  | 48                | . 37     | 77.1%   | 22    | 59.5%  | .458         | 3.87        |

|            |            |         |       | <br> |
|------------|------------|---------|-------|------|
| CLUSTER 05 | 700        |         |       |      |
| CHUNTER UN | / / n"     | <b></b> | PARMU |      |
|            | / <b>-</b> |         | ·     |      |

|                               | Cat<br>1 | Placed      | Placed | JTM . | 3<br>JTM | P/JTM<br>Rate                          | JTM<br>Wage |
|-------------------------------|----------|-------------|--------|-------|----------|--|-------------|
| 146 Angell                    | . 7      | 4           | 57.18  | 3     | 75.0     | .429                                   | 2.77        |
| 703 Charleston                | 20       | 9 .         | 45.0   |       | 66.78    | .300                                   | 2.32        |
| 716 Keystone                  | 3 4      | . 0         | .0     | _     | -        | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |             |
| 701 Cleveland                 | 2        | Ŏ           | Ŏ      | . :   | -        |  | , _         |
| 710 McKinney<br>706 Excelsion | 64       | 33          | 51.6%  | 21    | 63.6%    | .328                                   | 2.29        |
| Springs                       | 43       | 18          | 41.98  | 10    | 55.6%    | .233                                   | 2.30        |
| 717 Tongue Point              | 22       | 13          | 59.1%  | 12    | 92.3     | .545                                   | 3.57        |
| 851 Atlanta                   | 7        | 5. <b>4</b> | 57.1%  | . 2   | 50.0%    | .286                                   | 2.45        |
| 853 Atlanta                   | 1 "      | "· 0        | .0     | ` ' = |          |  |             |
| 849 El Paso                   | 5        | 2           | 40.0%  | 2     | 100.0%   | .400                                   | 2.35        |
| 807 Hawaii                    | 5        | Ž           | 40.0%  | 2     | 100.0    | <b>— .4</b> 00                         | 3.07        |
| 415 Portland                  | 3        | 3,          | 100.0% | 3     | 100.0    | 1.000                                  | 2.33        |
| 934 Breckenridge              | 24       | 10          | 41.78  | 7     | 70.0%    | .292                                   | 2.37        |
| 926 Atterbury                 | 16       | 10          | 62.5%  | À     | 40.0%    | .250                                   | 2.74        |
| 914 Gary                      | -ĭ       | ō           | 0,     | -     | 40.00    | .250                                   | 4.74        |
| 921 Santa Rosa                | ī        | ĭ           | 100.0  | ~ 1 · | 100.0%   | 1.000                                  | 1.00        |
| 709 Albuquerque               | 9        | <u> </u>    | 66.78  | 5     | 83.3%    | .556                                   | T.00        |
| 702 LA                        | 7        | Ğ           | 85.78  | 5     | 83.3     | .714                                   | -           |
| TOTAL                         | 251      | 128         | 51.0%  | 87    | 68.0%    | .347                                   |             |

| 05-a  | WAITRESS |
|-------|----------|
| UJ-A. | MALIKESS |

|     | <del></del> - |   |          | <u> </u> | MUTIVE | <del>,55</del> / _ |          |               |             |
|-----|---------------|---|----------|----------|--------|--------------------|----------|---------------|-------------|
|     |               | • | Cat<br>1 | # Placed | Placed | JTM                | )<br>jtm | P/JTM<br>Rate | JTM<br>Wage |
| 146 | Angell -      |   | ì        | 1        | 100.0% | 0                  | · · · 0  | . 0 .         | 0           |
| 709 | Albuquerque   | 4 | 8        | 6        | 75.0%  | 6                  | 100.0%   | .750          | _           |
| 710 | McKinney      |   | 10       | 6        | 60.0%  | 2.                 | 33.3%    | 200           | 1.70        |
| 702 | Los Angeles   |   | 2        | 2.       | 100.0% | 2                  | 100.0%   | 1.000         | ~           |
| 717 | Tongue Point  |   | 1        | 1        | 100.0% | 1                  | 100.0%   | 1.000         | _           |
| 921 | Santa Rosa    |   | į        | 1        | 100.0% | 1                  | 100.0%   | 1.000         | -           |
| ,   | TOTAL         |   | 23       | 17       | 73.98  | 12                 | 70.6%    | .521          | -           |

|      |        | * *  | 40 At 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |   |
|------|--------|------|---|---|
| 05-B | /25-B. | COOR | (PENALE)                                  | * |

|                  | Cat<br>1   | Placed       | Placed | JTM '    | JTM_   | P/JTM<br>Rate | JTM<br>Wage |
|------------------|------------|--------------|--------|----------|--------|---------------|-------------|
| 146 Angell       | \ <b>6</b> | . <b>3</b>   | -50.04 | · 3      | 100.0  | .500          | 2.77        |
| 710 McKinney     | 6          | 4,           | 66.78  | · 3·     | 75.0%  | .500          | 2.43        |
| 702 LA           | 1          | 1            | 100.0% | 1        | 100.0  | .500          | 2.50        |
| 851 Atlanta      | 7          | 4            | 57.18  | -        | _ `    | - `           | •           |
| 853 ATlanta      | 1          | 0            | . 0 ,  | -        | `-,    | <b></b>       | , –         |
| 845 Cincinnati   | 11.        | 7            | 63.68  | - 2      | 28.6%  | .182          | 2.40        |
| 849 El Paso      | · 5 `      | . 2          | 40.0%  | 2        | 100.0% | .400          | 2.35        |
| 807 Hawaii       | 5          | 2            | 40.0%  | . 2      | 100.0  | .400          | 3.07        |
| 934 Breckenridge | 12         | . <b>7</b> · | 58.3%  | 3        | 42.98  | .250          | 2.28        |
| 926 Atterbury    | -6         | .4           | 66.78  | 1        | 25.0%  | .167          | 2.60        |
| 709 Albuquerque  | 41         | , 1          | 100.0  | <b>.</b> | ·      | · ·           | \ <b>\</b>  |
| TOTAL            | 61         | 35           | 57.48  | 17       | 48.6%  | .279          | 2.54        |

05-C. BAKER (FRMALE)

| <u> </u>         |          | . 03-01     | DUNDY IE | <u>Descript</u> |        |               |             |
|------------------|----------|-------------|----------|-----------------|--------|---------------|-------------|
|                  | Cat<br>1 | #<br>Placed | Placed   | ‡<br>JTM        | JTM    | P/JTM<br>Rate | JTM<br>Wage |
| 717 Tongue Point | 2        | 2           | 50.0%    | 1               | 50.0%  | ,500          | 2.50        |
| 415 Portland     | 3        | . 3         | 100.0%   | 3               | 100.0% | 1.000         | 2.33        |
| 934 Breckenridge | 12       | <b>' 3</b>  | 33.3%    | 1               | -33.3% | .083          | 2:60        |
| 926 Atterbury    | 10       | 6           | 16.78    | 1               | 16,,78 | .100          | . 2.99      |
| 914 Gary         | . 1      | Ö           | 0.       | , =             | · •    | •••           |             |
| TOTAL            | 28       | * 14        | 50.0%    | 6               | 42.98  | .214          | 2.51        |

05-E. BAKER HELPER (FEMALE)

|                  |     |             | ** ********** | 7          |       |               |             |
|------------------|-----|-------------|---------------|------------|-------|---------------|-------------|
|                  | Cat | #<br>Placed | Flaced        | ‡<br>JTM   | JTM_  | P/JTM<br>Rate | JTM<br>Wage |
| 717 Tongue Point | 2   | 2           | 100.0%        | <b>2</b> . | 100.0 | 1.000         | 3.20        |



| 4 | 05-F, BAKER, SECOND (FEMALE) |     |             |        |          |           |                |             |  |  |  |  |
|---|------------------------------|-----|-------------|--------|----------|-----------|----------------|-------------|--|--|--|--|
|   |                              | Cat | #<br>Placed | Placed | ‡<br>JTM | \$<br>JTM | P/JTM:<br>Rate | JTM<br>Wage |  |  |  |  |
|   | 703 Charleston               | 1   | 0           | · 0    | •        | · •       |                |             |  |  |  |  |

|                                | 05-G     | 05-G, COOK, SHORT ORDER (FEMALE) |                |        |                |                |              |  |  |  |  |  |
|--------------------------------|----------|----------------------------------|----------------|--------|----------------|----------------|--------------|--|--|--|--|--|
| <b>'1</b>                      | Cat<br>I | #<br>Placed                      | Placed         | JTM_   | JTM            | P/JTM<br>Rate  | JTM<br>Wage  |  |  |  |  |  |
| 703 Charleston<br>710 McKinney | 8<br>11  | 4 6                              | 50.0%<br>54.5% | 2<br>3 | 50.0%<br>50.0% | .250 ·<br>.273 | 2.17<br>2.23 |  |  |  |  |  |
| TOTAL                          | 19       | 。10                              | 52.68          | 5      | 50.0%          | .263           | 2.21         |  |  |  |  |  |

| 05-H, COUNTER GIRL/MAN (FEMALE) |                       |     |             |                  |          |        |                |              |  |  |  |  |
|---------------------------------|-----------------------|-----|-------------|------------------|----------|--------|----------------|--------------|--|--|--|--|
|                                 | .^ ^                  | Cat | #<br>Placed | Placed           | #<br>JTM | JTM    | P/JTM:<br>Rate | JTM-<br>Wage |  |  |  |  |
| 716<br>706                      | Keystone<br>Excelsior | . 3 | 0           | 0                | -        | •      | . <b>-</b> .   | •            |  |  |  |  |
|                                 | Springs               | 2   | 1           | 50.0%            | 1        | 100.0% | .500           | 2.80         |  |  |  |  |
| 702                             | LA                    | 4   | <b>3</b>    | -75 <b>.</b> 0\$ | 2        | 6,6.7% | .500           | 2:99         |  |  |  |  |
| • •                             | TOTAL                 | 9   | 4           | 44.48            | 3        | 75.0%  | 333            | 2.93         |  |  |  |  |

| 14 <u>-5</u>             | <u> </u> |             |             |          |            |       |             |
|--------------------------|----------|-------------|-------------|----------|------------|-------|-------------|
| · ·                      | Cat<br>I | #<br>Placed | %<br>Placed | ‡<br>JTM | ş<br>JTM   | R/JTM | JTM<br>Wage |
| 706 Excelsion<br>Springs | ,<br>1   | . 0         | 0           | <b>-</b> | · <b>-</b> | · _   | <b>-</b>    |

| - 1 | Λ | £ \ W              | ٠. | <b>C M</b> | TTTT | (FE | 44 2 1 | 1 13 V |
|-----|---|--------------------|----|------------|------|-----|--------|--------|
|     | u | $\supset -\lambda$ |    | CT         | BEK  |     | MA.    | LELI   |

|                                 | Cat<br>I | Placed | Placed | ‡<br>JTM   | %<br>JTM | P/JRM<br>Rate | JTM<br>Wage |
|---------------------------------|----------|--------|--------|------------|----------|---------------|-------------|
| 703 Charleston                  | 11       | - 5    | 45.5%  | 3          | 60.0%    | .273          | 2.39        |
| 701 Cleveland                   | 2 .      | 0      | 0      | _          |          |               |             |
| 709 Albuquerque<br>710 McKinney | 37       | 17     | 45.9%  | 12         | 70.6%    | .324          | 2.36        |
| 706 Excelsion                   | 40       | 17     | 42.5%  | . 6        | 35.3%    | .150          | 2.41        |
| 717 Tongue Point                | 17       | 8      | 47.18. | ` <b>6</b> | 75.0%    | .353.         | 2.80        |
| TOTAL                           | 108      | " 47·  | 43.58  | : 27       | 57.4%    | .250          | 2.47        |



#### AUTO & MACHINE REPAIR

|                                  |                    | • ,         | * * *               | , ·            |              | •               |              |
|----------------------------------|--------------------|-------------|---------------------|----------------|--------------|-----------------|--------------|
| in increme                       | #                  | #           | · %                 | #              | %            | P/JTM           | JTM          |
| CLUSTER 6                        | <u>CAT I</u>       | PLACED"     | PLACED              | JTM            | JTM          | RATE            | WAGE         |
| 031 Pine Knot                    | 25                 | . 18        | 70 08               |                | . 00 04      |                 | , , ,        |
| 058 Lyndon Johnson               | , Ž                | . 10        | 72.0%               | 6              | 33.3%        | .240            | \$2.63       |
| -059 Schenck                     | . 3                | 1           | 100.0               | . 0            | 0.0          | 0               | , Õ          |
| 070 Jacobs Creek                 | . 25               | 17          | 33.3<br>68.0        | · 0,           | 0.0          | 0               | · _ 0.       |
| 258 Great Onyx                   | ્ર <sup>ે</sup> ું | 6           | 66.7                | 2              | 41.2         | .280            | 3.69         |
| 300 Oconaluftee                  | 3.                 | · ž         | 66.7                | 0              | 33.3         | .222            | 2.40         |
| 009 Cass                         | ·                  | . <b>5</b>  | 90.0                | ,U<br>7        | 0.0          | 700             | . 0          |
| 098 Ouachita                     | 8                  | 7           | 87 <b>.</b> 5       | .,             | 77.8<br>14.3 | .700            | 2:63         |
| 305 Treasure Lake                | • 6                | 6           | 100.0               | . 6            | 100.0        | .125            | 2.30         |
| 051 Pine Ridge                   | . 8                | 6 •         | 66.7                | ~ Δ            | 66.7         | 1.000 .<br>.444 | 3.07         |
| 270 Mingo                        | .2                 | ī           | 50.0                | 1 .            | 100.0        | 500             | 3,00         |
| 046 Trapper Creek                | · <b>4</b>         | 2           | 50.0                | 'n             | 0.0          | 0 .             | 3.00         |
| 088 Boxelder                     | 17.                | 9           | 52.9                | ·· 7           | 77.8         | .412            | ~ .2.97      |
| 172 Anaconda                     | 14                 | .10         | 71.4                | 4              | 40.0         | .286            | 3.57.        |
| 243 Collbran                     | _1                 | 0           | 0.0                 | Ó              | 0.0          | 0.              | 3.37.<br>√0` |
| 067 Timber Lake                  | 19                 | 11 • .      | 57.9                | 3              | 27.3         | .158            | 3.06         |
| 078 Curlew                       | 20                 | 16          | . 80.0              | 12             | 75.0         | .600            | 2.99         |
| 144 Angell                       | 14                 | 8           | 57.1                | 3              | 37.5         | .214            | 3.05         |
| 145 Wolf Creek                   | 19                 | 12 `        | 62.3                | 10             | 83.3         | .526            | 3.41         |
| 251 Marsing                      | \ 9                | 6 -         | 55.7                | 3 ,            | 50.0         | .333            | 3.16         |
| 340 Fort Simcoe                  | 13                 | 7           | 53.8                | 4 <sup>*</sup> | 57.1         | .308            | 4.20         |
| 605 Arecibo                      | 37                 | 35          | 94.6                | 30             | 85.7         | .811            | 1.98         |
| 608 Rio Grande<br>801 New Jersey | 27                 | , <u>18</u> | 66.7                | 9              | 50.0         | .333            | 1.71         |
| 826 Pictsburg                    | 31                 | 17          | 54.8                | 11             | 64.7         | .355            | 2.91         |
| -831 Hoodstock                   | 19<br>10           | . 17        | 89.5                | 8              | 47.1         | .421            | 2.97         |
| 836 Whitney Young                | 16                 | . 5         | 50.0                | 2              | 40.0         | .200            | - 3.10       |
| 431 Detroit                      | 16                 | · 2<br>8    | <sup>2</sup> 33.3   | 0              | 0.0          | 0               | • 0,         |
| 816-Cincinnati                   | 20                 | 12          | 50.0                | 3              | 37.5         | .188            | 2.60         |
| 811 El Paso                      | 26                 | 15          | 60.0<br>57.7        | /              | 58.3         | .350            | 2.50         |
| . 813 E1 Paso                    | 10                 | \ 6         | 60.0                | 9              | 60.3         | .346            | 2.34         |
| 857 Tulsa                        | ï                  | \ i         | 100.0               | 2              | 33.3         | .200            | 2.30         |
| ∜859 Tulsa                       | 2                  | \ i         | 50.0                | 0              | 0.0          | . 0             | 0            |
| 2840 Kicking Horse               | 15 <sup>.</sup>    | . \5        | 33.3                | .0             | 0.0          | 0               | , O          |
| 401 Phoenix                      | 26                 | 16          | 61.5                | 5              | 0.0<br>31.3  | 0               | 0            |
| ે403∺Phoentx                     | 17                 | · 8 `       | <sup>*</sup> , 47.1 | ŏ              | 0.0          | .192            | 2.47         |
| 442 San Jose                     | 20                 | - 16        | 80.0                | . 12           | 75.0         | 600             | 2 20         |
| 443 San Jose                     | 2<br>2             |             | 100.0               | 2              | 100.0        | .600<br>1:000   | 3.20         |
| 446 San Jose                     | 2 .                | · 2 \       | 100.0               | 2              | 100.0        | 1.000           | 3.75         |
| 805 Hawaii                       | 23                 | 17          | 73.9                | 7              | 41.2         | .304            | 3.37<br>3.21 |
| 411 Portland                     | 12                 | .6          | <b>√50.0</b>        | 3              | 50.0         | .250            | 4.33         |
| 413 Portland                     | 6                  | 6 .         | 100.0               | . 4            | 66.7         | .667            | 3.25         |
| 906 Breckinridge                 | 215                | 147         | 68.4                | 55             | 37.4         | .256            | 2.64         |
| 905 Atterbury                    | 163                | 91          | <b>55</b> \8        | 23             | 25.3         | .141            | 2.95         |
| _903 Gary                        | 127                | 88          | 69.3                | 63 -           | 71.6         | .303            | 3.07         |
| 910 Clearfield                   | 195                | 119 -       | 61.0                | 59             | 49.6         | .303            | 3.07         |
| 1902 Tongue Point                | i<br>1             | 0           | 0.0                 | 0              | . 0.0        | - 0.            | 0.07         |
| 161-Flatwoods<br>770 Keystone    | 1                  | 7           | 100.0               | , ]            | 100.0        | 1.000           | 3.00         |
|                                  |                    |             | 100.0               | \ •1           | 100.0        | 1.000           | 2.70         |
| TOTAL                            | 1263               | 818         | 64.7%               | 397            | 48.5%        | .314            | \$2.89       |
|                                  |                    | •           | ,                   |                | . TU.U/0     | .31.4           | \$C.03       |

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|                    | CAT I | #<br>PLACED | %<br>PLACED: . | #<br>JTM | JTM             | P/JTM<br>RATE | JTM<br>WAGE   |
|--------------------|-------|-------------|----------------|----------|-----------------|---------------|---------------|
| 058 Lyndon Johnson | 1 .   | 1 .         | 100.0%         | 0        | 0.0%            | 0             | \$ 0          |
| 070 Jacobs Creek   | 4 .   | 2           | 50.0           | 0        | 0.0             | , 0°          | 0.            |
| 172 Anaconda       | 1     | · 0         | 0.0            | 0        | 0.0             | 0             | 0.            |
| 144 Angell         | 4     | 2           | . 50.0         | 0        | °.0.0           | , 0           | 0             |
| 257 Marsing        | 6     | 3 .         | 50.0           | 1        | <b>33.3</b>     | .167          | 4.00          |
| 605 Arecibo        | 20    | 19          | 95.0           | 14       | • 73 <b>.</b> 7 | 700           | 1.95          |
| 826 Pittsburgh     | 7     | 7           | 100.0          | . 3      | 42.9            | .429          | 3.35          |
| 831 Woodstock      | - 1   | 1           | 100.0          | 9.       | 0.0             | . 0           | 0             |
| 431 Detroit        | . 2   | 2 -         | 100.0          | 0        | 0.0             | - 0           | 0             |
| 811 El Paso        | 16    | 11 .        | 68:8           | , 8      | 72.7            | 500           | 2.32          |
| 813 El Paso        | 5     | 3           | 60.0           | 3.       | 66.7            | .400          | 2.30          |
| 840 Kicking Horse  | 9     | 2           | 22.2.          | 0        | 0.0             | 0             | 0:            |
| 401 Phoenix        | . 2   | Ö           | 0.0            | 0.       | 0.0             | 0             | 10 🕏          |
| 403 Phoenix        | ī     | . 1         | 100.0          | 0        | ر.0 و 0         | . 0           | .0            |
| 442 San Jose       | Ž     | 2           | 100.6          | 2        | 100.0           | 1.000         | 3.12          |
| 806 Hawaii         | . 20  | 15          | 75.0           | √6       | 40.0            | .300          | 3.25          |
| 906 Breckinridge   | ` 1   | 1 1         | 100.0          | 0,       | . 0.0.          | . 0 ,         | 0.1           |
| 903 Gary           | · 2   | i           | 100.0          | . 0      | 0.0             | . 0           | · · · · O     |
| 905 Atterbury      | 22    | 18          | 81.8           | 2        | 11.1            | .091          | <b>3.25</b> ? |
| 910 Clearfield     | 131   | 78          | 59.5           | 29       | 32.2            | .221          | 3.07          |
| 770 Keystone       | i     | · 1         | 100.0          | 1        | 100.0           | 1:000         | 2.70          |
| TOTAL              | 258   | 170         | 68.0%          | 68.      | 40.0%           | .264          | \$2.89        |

6.B

|                              |   | CAT I      | PLACED_     | PLACED     | JTM.              | %<br>JTM       | P/JTM<br>RATE     | JTM<br>WAGE       |
|------------------------------|---|------------|-------------|------------|-------------------|----------------|-------------------|-------------------|
| 031 Pine Kno                 | it -;                                   | 25         | 18          | 72.0%      | 5                 | 27.8%          | .200              | \$2.70            |
| . 058 Lyndon J               | chnson                                  | 1 1        | . 1         | 100.0      | . 0               | ,0             | 0                 | . 0               |
| 059 Schenck                  |   | , 3        | 1 .         | 33.3       | 0                 | Ô              | 0                 | . 0               |
| 070 Jacobs C                 |   | 12         | <b>7</b> ·. | 58.3       | 4                 | 57.1           | •333 <sup>·</sup> | 2.91              |
| 258 Great On                 |   | . 9.       | . 6         | 66.7       | <sup>,</sup> 2    | 33.3           | .222              | 2.40              |
| 300 Ocona luf                | tee                                     | . 2        | 2           | 100.0      | 0                 | · 0            | 0                 | , <b>0</b> .      |
| -009 Cass                    | * | · 9        | 9           | 100.0      | 7                 | 77.8           | 778               | · 2.63            |
| 098 Ouachita                 |   | . 8        | 7           | 87.5       | · 1               | 14.3           | · .125            | 2.30 <sub>f</sub> |
| 305 Treasure                 | Lake                                    | 6          | 6           | 100.9      | 4                 | 66.7           | .667              | 3.12              |
| 051 Pine Rid                 | lge ·                                   | . 9        | 9           | 100.0      | 3                 | 66.7           | .667              | 3.00.             |
| 270 Mingo                    |   | .2         | . ] -       | - 50.0     | 1                 | 100.0          | .500              | 3.00              |
| 046 Trapper                  | Creek                                   | 4          | 2 ·         | 50.0       | 0                 | 0              | · , 0             | 0                 |
| 088 Boxelder                 |   | 17         | · 9         | 52.9       | . 7               | 77.8           | .412              | 2.97              |
| 172 Affaconda                |   | 4          | 4           | 100.0      | 1                 | 25.0           | .250              | 4.90              |
| 064 Timber L                 | .a <sub>.</sub> ke                      | 19         | 11          | 57.9       | 2                 | 18.2           | .105              | 3.00              |
| 078 Curlew                   |   | 20         | 16          | 80.0       | 8                 | 50.0 4         | .400              | 2.91              |
| 144 Angel 1                  |   | 6          | · 3         | 50.0       | 1                 | 33.3           | .167              | 3.80              |
| 145 Wolfcree                 | <b>K</b> . '                            | . 4        | 2           | 50.0 .     | 2                 | 100.0          | .500              | 3.00              |
| 251 Marsing                  |   | 3          | 3           | 100.0      | 1                 | 33.3           | .333              | 3,00              |
| 340 Fort Sim                 |   | 5          | 4           | 80.0       | ì 2               | «50 <b>.</b> 0 | .400              | 4.75              |
| 801 New Jers                 |   | : 13       | . 7         | 53.8       | . 6               | 85.7°          | .461              | 2.93              |
| 826 Pittsbur                 |   | - 2        | . 2         | 100.0      | 2                 | 100.0          | 1.000             | 3.25              |
| 831 Woodstoo                 |   | med        | 3           | 42.9       | 1                 | 33.3           | .143              | 2.60              |
| 836 Whitney                  | Young                                   | 6          | 2 '         | 33.3       | - 1 0             | 0 .            | . 0               | 0                 |
| 431 Detroit                  |   | . 14       | _6          | 42.9       | 3                 | 50.0           | .214              | 2.60              |
| 816 Cincinna                 | ונז .                                   | 20         | 12.         | 60.0       | 7                 | 58.3           | .350              | 2.50              |
| 840 Kicking                  | Horse                                   | 4          | Ţ           | 25.0       | 0                 | 0              | 0                 | 0 50              |
| 401 Phoenix                  | ′ 📆                                     | 4 .        | 3 .         | 75.0       | 1                 | 33.3           | .250              | 2.50              |
| 403 Phoenix                  | معمدن .                                 | 5<br>7     | 3 4         | 60.0       | 0                 | 0              | . 0               | . 0               |
| 442 San Jose                 |   |            | 5           | • 71.4     | 4                 | 80.0           | .571              | 3.12              |
| 906 Breckenr                 |   | 66         | 39          | 59.1       | 14                | 35.9           | .212              | 2.57              |
| 3905 Atterbur                | ·y ·                                    | <b>5</b> 0 | 27/         | 54.0       | 6                 | 22.2           | .120              | 2.71              |
| 903 Gary                     |   | 53         | . 90 .      | 75.5       | 29                | 72.5           | .547              | 3,06              |
| 910 Clearfie<br>161 Flatwood |   | , 1\       |             | 0<br>100.0 | <del>9</del><br>1 | 0<br>100.0     | . 0<br>1.000      | 3.00 ·            |
|                              |   | 403        | \ '.        |            |                   |                |                   |                   |
| TOTAL                        | ,                                       | , 421 · ,  | 272         | 64.6%      | 128               | 47.1           | .303              | 2.91              |

| **                | CAT I | PLACED | PLACED .      | #<br>JTM | y<br>JTM | P/JTM<br>RATE | JTH<br>WAGE |
|-------------------|-------|--------|---------------|----------|----------|---------------|-------------|
| 172 Anaconda      | 9     | 6      | 66.7%         | 1        | 16.7%    | .111          | \$3.50      |
| 243 Collbran      | 1     | 0 .    | 0.0           | ŋ        | 0.0      | 0             | ŋ           |
| 801 New Jersey    | 5     | 4      | 80 <b>/</b> 0 | 1        | 25.9     | .200          | 2.50        |
| 840 Kicking Horse | 2     | 2      | 100.0         | . 0      | 0.0      | ŋ,            | ·           |
| 442 San Jose      | 1 i   | n      | 0.0           | ້ ກ      | 0.0      | ŋ             | 1.0         |
| TOTAL             | 18    | 12     | 66.7%         | ?        | 16.7%    | .111          | \$3.00      |



|   | Sile Sile                            | III Gas- Eng                       | ine kep         | air  | · / .                         |
|---|--------------------------------------|------------------------------------|-----------------|--|-------------------------------|
|   | CAT I - PLACED                       | PMACED'                            | #<br><u>JTM</u> | y POIM RATE  | JTM<br>WAGE                   |
| 826 Pittsburgh<br>442 San Jose<br>411 Portland<br>905 Atterbury<br>903 Gary | 8 7<br>1 0<br>1 0<br>1 0<br>1 0<br>7 | 87.5%<br>0.0<br>0.0<br>0.0<br>63.6 | 2 0 0 0 3       | 28.6% .250<br>0.0 0<br>0.0 0<br>0.0 0<br>42.9 .273 | \$2.45<br>0<br>0<br>0<br>3.16 |
| TOTAL   | 22 14                                | 63,6%                              | 5               | 35.7% .227   | 2.88                          |

|      |              | CAT I         | PLACED.        | PLACED ~ | JTM. | JTM           | P/JTM<br>RATE: | JTM<br>WAGE   |
|------|--------------|---------------|----------------|----------|------|---------------|----------------|---------------|
| 145  | Wolf Creek   | / i           | ı j            | 100.0    | 1    | 100.0%        | 1.000          | <b>\$3:00</b> |
| 605  | V. V. 77 AVE | / 17          | 16             | 94.1     | 14   | 87.5          | .824           | 7.91          |
| 608  | Rio Grande   | / 14          | 10             | 71.4     | . 3  | 30.0          | .214           | 1.75          |
| 801  | New Jersey   | · 11          | <b>6</b> .     | 54.5     | 3    | 50.0          | .273           | ₹3;16         |
| 831  | Woodstock    | 2.            | 1              | 50.G     | 0    | 0.0           | 0 .            | 0             |
| 857  | ATUISA /     | <b>1</b> ,    | 1 .            | 100.0    | ,O   | 0.0           | · 0 🖊          | 0.            |
|      | Tulsa        | 1             | . ] `          | 100.0    | . 0  | 0.0           | . 0 %          | 7.0⊹          |
|      | Phoenix      | <b>,</b> ].`  | . 0            | 0.0      | . 0  | 0.0           | 0              | 0             |
| 442  | San Jose     | .1            | 1              | 100.0    | 0    | 0.0           | 0 .            | ે <b>ં</b>    |
|      | Hawa i i     | <b>.</b> 3    | · - 2          | 66.7     | ]    | 50.0          | .333           | 3.00          |
| 411  |              | , <b>11</b> . | 6 <sup>.</sup> | 54.5     | 3    | <b>50.</b> 0  | .273           | 4, 33         |
| 413  | Portland /   | 6             | 6              | 100.0    | 4    | 66.7          | •667           | 3.25          |
| 906  | ~            | 72            | · 52           | 72.2     | 21   | 40.4          | .292           | 2.79          |
| 905  | Atterbury    | 54            | 23             | 42.6     | 9    | .39.1         | <b>a 167</b>   | 2.81          |
|      | Gary         | ` 32          | ·28            | 87.5     | _ 18 | 64.3          | •563           | 2.85          |
|      | Clearfield   | 62            | 40             | 64.5     | 22   | <b>55.0</b> . | <b>.</b> 355   | 3.25          |
| 902  | Tongue/Point | 1             | 0 , '          | 0.0      | 0    | 0.0           | ٠ ٥٠           | 0.            |
| TOTA | L) /.        | 290           | 195            | 67.2%    | . 99 | 50.8%         | .341           | \$2.83        |



|   | CAT I              | ************************************** | %<br>PLACED                   | #<br>JTM         | %<br>JTM                     | P/JTM<br>RATE             | JTM<br>WAGE                 |
|---|--------------------|--|-------------------------------|------------------|------------------------------|---------------------------|-----------------------------|
| 145 Wolf Creek<br>906 Breckinridge<br>905 Atterbury<br>903 Gary | 13<br>5<br>3<br>16 | 8<br>4<br>1<br>5                       | 61.5%<br>80.0<br>33.3<br>31.3 | 5<br>2<br>0<br>3 | 62.5%<br>50.0<br>0.0<br>60.0 | .385<br>.400<br>0<br>.188 | \$3.58<br>2.65<br>0<br>2.75 |
| TOTAL   | , 3 <b>7</b>       | 18                                     | 48.6%                         | 10               | 55.6%                        | .220                      | \$3.15                      |



Service Station Attendant

| - | ٠ |  |
|---|---|--|
|   |   |  |
|   |   |  |
|   |   |  |

|   | CAT I                        | PLÄCED                           | PLACED  | JTM                        | JTM                                       | P/JTM<br>RATE                  | JTM<br>WAGE                               |
|---|------------------------------|----------------------------------|---|----------------------------|---|--------------------------------|---|
| 300 Oconaluftee<br>009 Cass<br>144 Angell<br>401 Phoenix<br>403 Phoenix<br>442 San Jose<br>826 Pittsburgh | 1<br>4<br>18<br>11<br>2<br>2 | 0<br>0<br>3<br>13<br>4<br>2<br>1 | 0.0%<br>0.0<br>75.0<br>72.2<br>3 <del>6</del> .4<br>100.0<br>50.0 | 0<br>0<br>2<br>1<br>0<br>1 | 0.0%<br>0.0<br>66.7<br>7.7<br>0.0<br>50.0 | 0<br>.500<br>.056<br>0<br>.500 | \$ 0<br>2.67<br>2.30<br>0<br>3.40<br>2.30 |
| TOTAL   | 39                           | 23                               | 59.0%   | 5.                         | 21.7%                                     | .128                           | \$2.67                                    |



6K

### General Machinery

|     |      | *.  | .1 | CAT I | PL | #<br>ACED | %<br>PLACED | JTM | 3<br>JTM | P/JTM<br>RATE | JTM<br>WAGE |
|-----|------|-----|----|-------|----|-----------|-------------|-----|----------|---------------|-------------|
| 859 | ŢuŢś | a ´ | •  | 1     | •  | 0         | 0.0         | 0.  | 0.0      | 0             | 0           |





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### Brake Repairman

|           | CAT I      | #<br>PLACED | PLACED | JTM  | JTM   | P/JTM<br>RATE | JTM<br>WAGË |
|-----------|------------|-------------|--------|------|-------|---------------|-------------|
| 070 Jacob | os Creek 1 | * ]         | 100.0% | °o ¯ | 0.0   | . 0           | \$ 0        |
| 442 San 3 |            | 2           | 100.0  | Ö    | 0.0   | ` 0           | 0           |
| 443 San   |            | 1.          | 100.0- | 1    | 100.0 | 100.00        | 4.00        |
| 903 Gary  | į          | 0           | 0.0    | 0    | 0.0   | . 0           | Ó           |
| TOTAL     | 5          | · 4         | 80.0%  | 1    | 25.0% | .200          | \$4:00      |



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# Diesel Mechanic

| W   | CAT I                  | #<br>PLACED                 | PLACED                                       | JTM                   | JTM                                       | P/JEM<br>RATE                    | JTM<br>WAGE                        |
|---|------------------------|-----------------------------|--|-----------------------|---|----------------------------------|------------------------------------|
| 070 Jacobs Creek<br>340 Fort Simcoe<br>811 El Paso<br>813 El Paso<br>401 Phoenix<br>905 Atterbury<br>903 Gary | 8<br>9<br>5<br>1<br>32 | 7<br>3<br>3<br>3<br>0<br>21 | 87.5%<br>37.5<br>33.3<br>60.0<br>0.0<br>65.6 | 3<br>0<br>0<br>0<br>0 | 42.9%<br>33.3<br>0.0<br>0.0<br>0.0<br>0.0 | .375<br>.125<br>0<br>0<br>0<br>0 | \$4.73<br>5.00<br>0<br>0<br>0<br>0 |
| TOTAL   | 65                     | 38                          | 59.4%  | · 4                   | 10.5%                                     | .063                             | \$4.79                             |

|   | - |
|---|---|
| 6 | 0 |

## Fan Adipment Mechanic

|                | CAT I | #<br>PLACED | %<br>PLACED | #<br>JTM | JTM ·  | P/JTM<br>RATE | JTM<br>WAGE |
|----------------|-------|-------------|-------------|----------|--------|---------------|-------------|
| 910 Clearfield | 1     | 1           | 100.0%      | 1 `      | 100.0% | 1.0           | \$2.55      |



| · * | *        | CAT I | #<br>PLACED | %<br>PLACED | #<br>JTM | 3TM  | P/JTM<br>RATE | JTM<br>WAGE |
|-----|----------|-------|-------------|-------------|----------|------|---------------|-------------|
| 442 | San Jose | 1     | 1           | 100.0%      | 0        | 0.0% | 0             | . 0         |



|   |      | <u> </u> |       |        |   | `. <b>\</b> | #   | <b>.</b> • | P/JTM | JŤ  | M   |
|---|------|----------|-------|--------|---|-------------|-----|------------|-------|-----|-----|
|   | •    |          | CAT I | PLACED | , | PLACED      | υΪΜ | JŤM        | RATE  |     | GE  |
| • | .903 | Gary     | 11    | 8      |   | 54.5%       | 3   | 50.0%      | .273  | \$3 | .44 |

### <u>Other</u>

| ,    |              | CAT I | #<br>PLACED | %<br>PLACED | #<br>JTM | JTM    | P/JTM<br>RATE                         | JTM<br>WAGE |
|------|--------------|-------|-------------|-------------|----------|--------|---------------------------------------|-------------|
| :145 | Wolf Creek   |       | 1           | 100.0%      | 1        | 100.0% | 100.000                               | \$3.75      |
| 801  | New Jersey   | . 2   | 0,          | 0.0         | 0        | 0      | , , , , , , , , , , , , , , , , , , , | , O         |
| 442  | San Jose     | - 3   | 3           | 100.0       | Ī        | 33.3   | .333                                  | 3.25        |
|      | San Jose     | 1     | 1           | 100.0       | i        | 100.0  | 100.000                               | 3.50        |
| 446  | San José     | 2     | 2           | 100.0       | j        | 100.0  | 100.000                               | 3.37        |
|      | Breckinridge | 71    | 51          | 71.8        | 12       | 23.5   | .169                                  | 2.70        |
| 905  | Atterbury    | 1     | , <b>1</b>  | 100.0       | 0        | 0.0    | 0                                     | \ 0.        |
| TOTA | L , , ,      | 81    | 59          | 72.8%       | 16.      | 27.1%  | .198                                  | \$2.89      |



### <u>Females</u>

#### Auto and Machine Repair

|  |   | CAT .I                          | #<br>PLACED                     | %<br>PLACED  | JTM                             | %<br>JTM   | P/JTM<br>RATE                               | JTM<br>WAGE                                      |
|--|---|---------------------------------|---------------------------------|--|---------------------------------|--|---|--|
| 7.16<br>437<br>845<br>405<br>407<br>415<br>934 | Angell<br>Keystone<br>Detroit<br>Cincinnati<br>Phoenix<br>Phoenix -<br>Portland<br>Breckinridge | 1<br>2<br>1<br>1<br>5<br>1<br>2 | 1<br>1<br>0<br>1<br>1<br>2<br>1 | 100.0%<br>50.0<br>100.0<br>0.0<br>20.0<br>100.0<br>100.0<br>27.3 | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.0%<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>50.0<br>100.0<br>66.7 | 0<br>0<br>0<br>0<br>0<br>0<br>.500<br>1.000 | \$ 0<br>0<br>0<br>0<br>0<br>3.00<br>3.00<br>4.68 |
| 926  | .Atterbury "  | '!<br>2                         | , Ĭ.                            | 50.0   | · 1                             | 100.0  | •5,00                                       | 3.00   |

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06A

# Auto Mechanic Helper (Female)

| ••           | CAT I | PLACED | PLACED | JTM | JTM | P/JTM<br>RATE. | JTM<br>WAGE  |
|--------------|-------|--------|--------|-----|-----|----------------|--------------|
| 716 Keystone | . ,   | 1      | 100.0% | - " | -   | <b>-</b> ·     | . <b>-</b> · |

### Auto Service Sepair (Female)

|                | CAT I | PLACED . | %<br>PLACED | JTM . | <u>JTM</u> | P/JTM<br>RATE | JTM<br>WAGE |
|----------------|-------|----------|-------------|-------|------------|---------------|-------------|
| 716 Keystone   | , 1   | 0 .      | . 0.0%      | •     | - ×        | ·,            | <b>\$</b> - |
| 437 Detroit    | 1     | l        | 100.0       | -     | -          | -             |             |
| 845 Cincinnati | 1     | , 0      | 0.0 4       | •     | -          | -             | -,          |
| 405 Phoenix    | 1     | . 0      | 0.0         | •     | -          | •             | _           |
| 407 Phoenix    | 1     | 1        | 100.0       | •     | -          | -             | _           |
| 415 Portland   | i     | 1        | 100.0       | -     | _          | _             |             |
| 926 Atterbury  | i ·   | i        | 100.0       | Ι.    | 100.0      | 1.00          | 3.00        |
| TOTAL          | 7     | . 4      | 57.1%       | -1    | 25.0%      | .143          | \$3.00      |



#### Auto Body Repairman

|  | CAT I        | #<br>PLACED. | <u> FLACED</u>                    | JTM | %<br>OTM             | P/JTM<br>RATE | JTM<br>WAGE          |
|--|--------------|--------------|-----------------------------------|-----|----------------------|---------------|----------------------|
| 405 Phoenix -<br>415 Portland<br>916 Atterbury | 1<br>1<br>10 | 0<br>1<br>2  | 0.0%<br>100.0<br>2 <del>0.0</del> | / . | - %<br>100.0<br>50.0 | 1.000         | \$ -<br>3.00<br>6.37 |
| TOTAL  | 12           | ·<br>3       | 25.0%                             | ` 2 | 66.7%                | .167          | \$4.69               |

# Auto Parts Clerk (Female)

|                              | CAT I | PLACED | %<br>PLACED     | #<br><u>JTM</u> · | JTM -           | P/JTM<br>RATE | JTM / WAGE       |
|------------------------------|-------|--------|-----------------|-------------------|-----------------|---------------|------------------|
| 934 Breckinridge<br>914 Gary | 1 2   | ]      | 100.0%-<br>50.0 | ` ].              | 100.0%<br>100.0 | 1.000         | \$3.00<br>3.00   |
| TOTAL                        | 3     | 2      | 60.7%           | 2 .               | 100.0%          | .667-         | <b>-\$3.00</b> - |

06H

### Service Station Attendant (Female)

|             | CAT I | °  | %<br>PLACED | #<br>JTM | %<br>JTM       | P/JTM<br>RATE | JTM<br>WAGE |
|-------------|-------|----|-------------|----------|----------------|---------------|-------------|
| 146 Angell  | 1     | 1. | 100.0%      | _        | _              | -             | •           |
| 405 Phoenix | · 3   | 1  | 33.3        | -        | •              | -             | -           |
| T?TAL       | 4     | 2~ | 50.0%       |          | , <sub>=</sub> | -             |             |



|     |                           | #           | #.            | . <b>%</b>        | Î          | *  | P/JTM             | JTM                       |
|-----|---------------------------|-------------|---------------|-------------------|------------|--|-------------------|---------------------------|
|     | •                         | Cat I       | Placed Placed | Placed Placed     | JTM        | JTM  | Rate              | Wage                      |
| 16  | Flatwoods                 | 7.7         | \69·          | 39-6%             | 50         | 72.5%  | .649              | \$3.96                    |
|     | Harper's Ferry            | 48          | 31            | 64.6              | 16         | 48.5   | 000               |                           |
|     | Pine Knot                 | .136        | 75            | 55.1              | 35         | 46.7   | .257 /            | 3.48                      |
|     | LBJ                       | 47          | 34            | 72.3              | 23         | 67.6   | .489              | 3.59                      |
|     | Schenck                   | 25          | 20            | 80.0              | 15         | 75:0   | .600              | 3.55                      |
|     | Jacobs Creek              | 71          | 47            | 66.2              | 38         | 80.9   | .535              | ž                         |
|     | Great Onyx                | 112         | 73            | 65.2              | 47         | 64.4   | .420              | 4.25                      |
|     | Oconaluftee               | 72          | 46            | 63.9              | 25         | 54.3   | .347              | 3.95                      |
|     | Blackwell                 | 47          | 34            | 72.3              | 32         | 94.1 ·   |                   | 3.43<br>5.28              |
|     | Golconda                  | 39          | 27 ·          | 69.2              | 22         | 81.5   |                   |                           |
|     | Cass                      | 70          | 56            | 80.0              | 41         | 73.2   | .564              | 4.35                      |
|     | Ouachita                  | 60          | 54            | 90.0              |            |  | .586              | 3.57                      |
|     | Treasure Lake             | 67          | - 57          | 85.1              | 43         | 79.6   | .717              | 4.33                      |
|     | Pine:Ridge                | 66          | 43            | 65.2              | 52<br>20   | 91.2   | .776              | 4.44                      |
|     | Mingo                     | 61          |               |                   | 30         | 69.8   | .455              | 3.92                      |
|     |                           | 22          | 42<br>12      | 68.9              | 26         | 61.9   | 426               | 4.00                      |
| 040 | Trapper Creek<br>Boxelder | . 76        | 62            | 54.5              | 10         | 83.3   | .455              | 5.65                      |
|     | Anaconda                  | . 76<br>49  | 33            | 81.6              | 47         | 75.8   | .618              | 4.23                      |
|     | Collbran                  | 53          | 33<br>41      | 67.4              | 21         | 63.6   | .429              | 4.28                      |
|     | Weber Basin               |             | 48            | 77.4<br>79. 3'    | 29         | 70.7   | . 547             | 4.45                      |
|     |                           | 61<br>57    |               | 78.7 <sup>*</sup> | 41         | 85.4   | .672              | 4.66                      |
|     | Timber, Lane<br>Curlew    |             | 46<br>46      | 80.7              | 37<br>24   | 80.4   | .649              | 5.36                      |
|     | Angell                    | 62<br>· 103 | 46<br>70      | 74.2              | 34         | 73.9   | .548              | 4.88                      |
|     | Wolf Creek                | 86          | · 69          | 68.0<br>80.2      | 37<br>43   | 52.9   | .359              | 4.61                      |
|     | Marsing                   | 113         | 79 °          | 69.9              | 43<br>39   | 62.3<br>49.4   | .500              | 4.90                      |
|     | ) Ft. Simcoe              | · 95 .      | 51            | 60.0              | 39<br>37   |  | .345              | 4.41                      |
|     | Columbia Basin            | 78          | 63 ·          | 80.8              | 47         | 64.9<br>74.6   | .390              | 5.00<br>4.54 <sub>°</sub> |
|     | Arecibo                   | 17          | 16            | 94.1              | 12         | 74.0   | .603 <sup>^</sup> | 4.54 °<br>2.44            |
|     | Rio Grande                | 23          | 18            | 78.3              | 13         | 72.2   | .565              |                           |
|     | Keystone                  | 20          | 20            | 100.0             | 14         | 70.0   | · 700             | 2.00                      |
|     | Cleveland                 | 4           | 3             | 75.0              | 2          | 66.7   | .500              | 4.70<br>4.49              |
|     | Excelsior Springs         | 17          | 17            | 100.0             | 11         | 64 <b>.</b> 7.   | .647              | 3.27                      |
|     | LA Springs                | 1           | 1,            | 100.0             | 1          | 100.0  | 1.00              | 9.99                      |
|     | LA                        | 3           | 2             | 100.0             | . 2        |  | .667              |                           |
|     |                           | 14          | 13            | 92.9              |            | 66.7   |                   | 5.17<br>4.62              |
| 801 | Tongue Point              | 25          | 14 .          | 56.0              | . 10<br>7  | 76.9<br>50.0   | .714<br>.280      | 3.04                      |
|     | . Woodstock               | 34          | 25            | 73.5              | 22         | 88.0   | .647              | 4.08                      |
|     | Whitney Young             | 42          | 23<br>17      | 40.5              | - 9        | and the second s |                   |                           |
|     | Detroit                   | 37          | 27            | 73.0              | 22         | 52.9<br>81.5   | .214<br>.595      | 2.94<br>3.21              |
|     | Gincinnati                | 10          | 6             | 60.0              |            | 33.3   | .200              | 4.13                      |
|     | Cincinnati                | 7           | 7             | 1,00.0            | 2<br>6     | 85.7   | .857              | 3.85                      |
|     | Cincinnati                | 2           | 2             | 100.0             | 1.         | 50.0   | .500              | 5.27                      |
|     | Mississippi,              | 1           | 1             | 100.0             | 1.         | 1.00.0   | 1.00              | 3.50                      |
|     | Tulsa                     | 4           | 2             | 50.0              | 1          | 50.0   | .250              | 3.50                      |
|     | Kicking Horse             | 46          | 28            | 60.9              | 17         | 60.7   | .369              | 4.83                      |
| 540 | VTCVTHE HOTSE             | 40          | 20            | 00.7              | <b>⊥</b> / | 00.7   | ・コログ              | 7.03                      |

#### 07/27 Construction Trades (Male) Continued

|     |              | # 1   | # .           | 7           | #          | *            | P/JTM | JTM .  |
|-----|--------------|-------|---------------|-------------|------------|--------------|-------|--------|
|     |              | Cat I | Placed Placed | Placed      | <u>JTM</u> | , <u>JTM</u> | Rate  | Wage   |
|     |              | • •   | •             | •           |            |              |       | :      |
| 401 | Phoenix      | 24    | 18            | 75.0%       | 13         | 72.2%        | .542  | \$4.72 |
| 403 | Phoenix      | 31    | 25            | 80.7        | 21         | 84.0         | .677  | 4.26   |
|     | San Jose     | 23 ·  | 20            | 870         | 18         | <b>9Q.</b> 0 | .783  | 3.38   |
|     | San Jose     | 2     | 2             | 100.0       | 1          | 50.0         | .500  | 3.50   |
|     | San Jose     | 2     | 2             | 100.0       | ` 1        | 50.0         | .500  | 3.00   |
|     | Hawaii       | -22   | 15            | 68.2        | 10         | 66.7         | .455  | 3.33   |
| 906 | Breckenridge | 333   | 198           | 59.5        | 102        | 51.5         | .306  | 3.14   |
|     | Atterbury    | 143   | 80            | 55.9        | . 28       | 35.0         | .196  | 3.14   |
|     | Gary ,       | 278   | 210           | <u>75.5</u> | 137        | 65.2         | .493  | 3.60   |
|     | TOTAL        | 3,018 | 2,124         | 70.4%       | 1,401      | 66.0%        | .464  | \$4.02 |

| ,          |                | #<br>Cat I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage       |
|------------|----------------|------------|-------------|-------------|----------|----------|---------------|-------------------|
| • ` • •    |                | •          | •           |             |          |          |               | •                 |
| 161        | Flatwoods      | 19         | 19          | 100.0%      | 9        | 47.4%    | .474          | ~ \$2 <b>.</b> 73 |
| 350        | Harper's Ferry | 16         | 13          | 81.3        | 6        | 46.2     | .375          | 3.78              |
|            | Pine Knot      | 55         | 33          | 60.0        | 12       | 36.4     | .218          | 3.30              |
| <b>058</b> | LBJ            | 10 -       | 7 ·         | 70.0        | 5        | 71.4     | .500          | 3.19              |
| 059        | Schenck.       | 7          | 6           | 85:7        | . 3      | 50.0     | .429          | 3.43              |
| 070        | Jacobs Creek   | 16         | 5.          | 31.3        | 2        | 40.0     | .125          | 3.70              |
| 258        | Great Onyx     | 43         | <u>~ 32</u> | 74.4        | 18       | 56.3 -   | .419          | 4.46              |
| <b>300</b> | Oconaluftee    | 18         | ` 11        | 61.1        | 4        | 36.4     | .222          | 3.94              |
|            | Blackwell      | 23 .       | 20          | 87.0        | 17       | 85.0     | .739          | 5.15              |
| 109        | Golconda       | 18         | 14          | 77.8        | 11       | 78.6     | :611          | 4.91              |
|            | Cass           | 30         | 25          | 83.3        | 18       | 72.0     | .600          | 4.06              |
| .098       | Onachita       | 24         | 24          | 100.0       | 22       | 91.7     | .917          | 4.69              |
| 305        | Treasure Lake  | 25         | ·21         | 84.0        | 19       | 90.5     | .760          | 4.24              |
|            | Pine Ridge     | 40 ´       | 25          | 62.5        | 15       | 60.0     | .375          | 3.72              |
|            | Mingo          | 20         | 15          | 75.0        | 7        | 46.7     | .350          | 3.31              |
|            | Trapper Creek  | 13         | 9 ′         | 69.2        | 8.       | 88.9     | .615          | 5.65              |
| 880        | Boxelder       | 40         | 34          | 85.0        | 27       | 79.4     | .675          | 4.86              |
|            | Anaconda       | 25         | 18          | 72.0        | 9        | 50.0     | .360          | 4.05              |
| 243        | Collbran       | 18         | 15          | 83.3        | 10       | 66.7     | 556           | 4.25              |
| 323        | Weber Basin    | 20         | 18          | 90.0        | 16       | 88.9     | .800          | 4.76              |
|            | Timber Lake    | 33         | 26          | 78.8        | 19       | 73.1     | .576          | 5.20              |
|            | Curlew         | 35         | 25          | 71.4        | 18       | 72.0     | .514          | 4.73              |
| 144        | Angel1         | 53         | 40          | 75.5        | 25       | 62.5     | .471          | 5.10              |
|            | Wolf Creek     | 41         | 33          | 80.5        | 21       | 63.6     | .512          | 4,95              |
| 251        | Marsing        | 33         | 23          | 69.7        | 13       | 56.5     | .394          | 4.86              |
|            | Ft. Simcoe     | , 31       | 23          | 74.2        | 14       | 60.9     | .452          | 5.22              |
|            | Columbia Basin | 20         | 18          | 90.0        | 14       | 77.8     | .700          | 5,41              |
|            | Arecibo        | 13         | 12          | 92.3        | 8        | 66.7     | .616          | 2.36              |
| 608        | Rio Grande     | 6          | 4           | 66.7        | i        | 25.0     | .167          | 2.00°             |
|            | Woodstock      | 8          | 8           | 100.0       | `8       | 100.0    | 1.00          | 3.94              |
| 836        | Whitney Young  | 7          | 3           | 42.9        | Ō        | _        | _             | -                 |
| 840        | Kicking Horse  | 16         | 11          | 68.8        | . 6      | 54.5     | .375          | 4.11              |
|            | Cincinnati     | 2          | 1           | 50.0        | ì        | 100.0    | .500          | 5.25              |
|            | Cincinnati     | 1          | 1           | 100.0       | ī        | 100.0    | 1.00          | 5.27              |
|            | Phoenix        | 8          | 7           | 87.5        | 5        | 71.4     | .625          | 4.51              |
|            | Phoenix        | 11         | 9           | 81.8        | 6        | 66.7     | .546          | 4.78              |
|            | Hawaii         | 11         | 9           | 81.8        | 6        | 66.7     | .546          | 3.58              |
|            | Breckenridge   | 64         | 42          | 67.7        | 26       | 61.9     | .419          | 3.21              |
|            | Atterbury      | 20         | 13          | 65.0        | 2        | 15.4     | .100          | 2.50              |
|            | Gary           | 47         | 32          | 68.1        | 11       | 34.4     | .234          | 3.17              |
| TOTA       | L              | 940        | 704         | 74.9%       | 443      | 62.9%    | .471          | \$4.33            |



|     |               | #     | #         | <b>%</b> ' | #   | 7.     | P/JTM      | JTM         |
|-----|---------------|-------|-----------|------------|---|--------|------------|-------------|
|     | •             | Cat I | Placed    | Placed     | JTM   | JTM    | Rate       | Wage        |
| 161 | Flatwoods     | 1     | 1         | 100.0%     | 1   | 100.0% | 1.00       | \$3.95 ¯    |
| 058 |               | 1     | 1         | 100.0      | -   | -      | -          |             |
| 059 |               | 1     | 1         | 100.0      | -   | - •    | -          | · •         |
| 070 | Jacobs Creek  | 1     | 1         | 100.0%     | -   | -      | -          | -           |
| 109 | Golconda      | 1     | 0         | _          | -   | -      | <b>-</b> . | <b>-</b> ,  |
| 340 | Ft. Simcoe    | 1     | 0         | -          | -   | -      |            | -           |
|     | Curlew        | 1     | 1         | 100.0      | 1   | 100.0  | 1.00       | 3.50        |
| 251 | Marsing       | 1     | 1.        | 100.0      | -   | _      | -          | -           |
|     | Rio Grande    | 3     | 3         | 100.0      | 3   | 100.0  | 1.00       | 2.00        |
| 801 | NJ            | 3     | 1         | 33.3       | 1   | 100.0  | .333       | 3.50        |
| 831 | -             | 10    | 8         | 80.0       | 5   | 62.5   | .500       | 4.40        |
|     | Whitney Young | 6     | 1         | 16.7       | -   | -      | -          | <b>-</b>    |
| 401 |               | 1     | 1         | 100.0      | 1   | 100.0  | 1.00       | 2.50        |
|     | Phoenix       | · 1   | 1         | 100.0      | <u>,                                     </u> | -      | -          | <b></b> , , |
|     | Breckenridge  | ` 45  | 21        | 46.7       | 6   | 28.6   | .133       | 3.25        |
|     | Atterbury     | °34   | 16        | 47.1       | 3   | 18.8   | . 088      | 2.50        |
|     | Gary          | 102   | <u>76</u> | 74.5       | <u>.51</u>                                    | 67.1   | .500       | 3.66        |
| TOT | AL            | 213   | 134       | 62.9%      | 72  | 53.7%  | .338       | \$3.54      |



| <b></b>            |       |                |                 |            | ,     |               | į.                 |
|--------------------|-------|----------------|-----------------|------------|-------|---------------|--------------------|
| •                  | Cat I | #<br>Placed    | 7<br>Placed     | #<br>JTM   | JTM   | P/JTM<br>Rate | JTM<br><u>Wage</u> |
| 161 Flatwoods      | 6     | 5              | 83.3%           | 3          | 60.0% | •500          | \$5 <b>.2</b> 5    |
| 350 Harpers Ferry  | . 3   | 3              | 100.0           | 3          | 100.0 | 1.00          | 5.92               |
| 031 Pine Knot      | . 33  | 22             | 66.7            | 6          | 27.3  | .182          | 4.32               |
| 058 LBJ            | 6     | <sup>-</sup> 4 | 66.7            | 1          | 25.0  | .160          | 2,50               |
| 070 Jacobs Creek   | 3     | 3              | 100.0%          | 2          | 66.7  | .167          | 4.02               |
| 258 Great Onyx     | 7     | 5              | 71:4            | 2<br>3     | 60.0  | .429          | 3.91               |
| 009 Cass           | · 14  | 12             | 85 <b>.</b> 7 · | <b>5</b> . | 41.7  | .357          | 2.67               |
| 300 Oconaluftee    | 3     | 3              | 100.0           | 3 ;        | 100.0 | 1.00          | 5.04               |
| 305 Treasure Lake  | 9     | 8              | 88.9            | 6          | 75.0  | .667          | 4.52               |
| 051 Pine Ridge     | 15    | 9              | 60.0            | 7          | 77.8  | .467          | 4.92               |
| 088 Boxelder       | 5     | 2              | 40.0            | 2          | 100.0 | .400          | 3.00               |
| 243 Collbran       | - 3   | 3              | 100.0           | 1          | 33.3  | .333          | 4.00               |
| 323 Weber Basin    | 7     | 6              | 85.7            | 1          | 16.7  | .143          | 2.75               |
| 078 Curlew         | 1     | 1              | 100.0           | -          | - 1   | -             |                    |
| 145 Wolf Creek     | 1     | 1 .            | 100.0           | -          | -     | -             | <b>-</b> .         |
| 251 Marsing        | 12    | 9              | 75.0            | 6          | 66.7  | .500          | 4.49               |
| 340 Ft. Simcoe     | 5     | 1              | 20.0            | 1          | 100.0 | .200          | 2.50               |
| 343 Columbia Basin | 9 .   | 6              | 66.7            | 2          | 33.3  | .222          | 3.12               |
| 608 Rio Grande     | ,5 .  | 3              | 60.0            | 1          | 33.3  | .200          | 2.00               |
| 770 Keystone       | 4     | 4              | 100.0           | 3          | 75.0  | .750          | 4.41               |
| 831 Woodstock      | 5     | <b>2</b> ·     | 40.0            | 2          | 100.0 | .400          | 3.69               |
| 836 Whitney Young  | 1     | 1              | 100.0           | _          | _     | <b>-</b>      | -                  |
| 840 Kicking Horse  | 1     | 1              | · 100.0         | _          | _     | -             | _                  |
| 401 Phoenix        | 2     | 2              | 100.0           | 2          | 100.0 | 1.00          | 4.75 ·             |
| 403 Phoenix        | 3     | 3              | 100.0           | 1          | 33.3  | .333          | 5.65               |
| 442 San Jose       | 1 .   | 0              | -               | -          | -     | -             | _                  |
| 806 Hawaii         | 1     | 1              | 100.0           | -          | -     | -             | -                  |
| 906 Breckenridge   | 12    | 4              | 33.3            |            |       |               |                    |
| TOTAL              | 177   | 124 ' .        | 70.1%           | 61         | 49.2  | .345          | 4.17               |

|                    |   | #<br>Cat I | #<br>Placed | 7<br>Placed       | . #<br><u>JTM</u> | Z<br>JTM       | P/JTM<br>Rate | JTM<br>Wage |
|--------------------|---|------------|-------------|-------------------|-------------------|----------------|---------------|-------------|
| 161 Flatwoods      |   | `10        | 8           | 80.0              | 6                 | 75.0%          | .600          | \$4.05      |
| 350 Harpers Ferry  |   | 11         | 2           | 18.2              | -                 | _              | -             | -           |
| 0. Pine Knott      |   | 8 ;        | 3           | 37.5              | -                 | -              | -             |             |
| 058 LBJ            |   | 7          | 4           | 57.1              | 2                 | - 50.0         | .286          | 2.75        |
| 059 Schenck        |   | 8.         | 4           | 50.0              | 3, ^,             | 75.0           | .375          | 3.00 1      |
| 070 Jacobs Creek   |   | 7          | 4           | 57.1              | 2                 | 50.0           | .286          | 3.47        |
| 258 Great Onyx     |   | 30         | 18          | 60.0              | 7                 | 38.9           | .233          | 3,84        |
| 082 Blackwell*     |   | 7          | 5 .         | 71.4              | 5                 | 100.0          | .714          | 6.07        |
| 109 Golconda       |   | <b>5</b> . | 3₄          | 60.0              | 1                 | 33.3           | .200          | 3.00        |
| . 098 Ouchita      |   | · 9        | 7           | 77.8              | 3                 | 42.9           | .333          | 4.33        |
| 305 Treasure Lake* |   | 11         | 9           | 81.8              | 9                 | 100.0          | .818          | 4.48        |
| 270 Mingo          |   | 4          | 3           | 75.0 <sub>3</sub> | 1 .               | 33.3           | .250          | 6.09        |
| 243 Collbran       | • | 3          | 2           | 66.7              | 1                 | 50.0           | .333          | 4.00        |
| 323 Weber Basin*   |   | 17         | 15 .        | 88.2              | 14                | 93.3           | .824          | 4.50        |
| 251 Marsing        |   | <b>_29</b> | 18          | 62.1              | 4                 | 22:2           | .138          | .5.40       |
| 340 Ft. Simeco     | , | 8          | 5           | 62.5              | .4.               | 80.0           | .500          | 5.55        |
| 343 Columbia Basin | ( | 8 .        | 5           | 62.5              | 5                 | 100.0          | .625          | 4.36        |
| 770 Keystone*      |   | 4          | 4           | 100.0             | 4                 | 100.0          | 1.00          | 4.87        |
| 831 Woodstock*     |   | 2          | 2           | 100.0             | 2                 | 100.0          | 1.00          | 4.00        |
| 836 Whitney Young  |   | 16         | 9           | 56.3              | 3 -               | 33.3           | .188          | 2.81        |
| 401 Phoenix        |   | 4          | 2           | 50.0              | -                 | <del>-</del> . | -             | ~           |
| 403 Phoenik        |   | 4          | 3           | 75.0              | 2                 | 66.7           | .500          | -3.00       |
| 906 Breckenridge   |   | 68         | 44          | 64.7              | 21                | 47.7           | .309          | 3.31        |
| 905 Atterbury      |   | 1          | 1           | 100.09            | -                 | -              | -             | -           |
| 903 Gary           |   | 42         | 34_         | 81.0              | 25                | <u>73.5</u>    | .595          | 3.69        |
| TOTAL              |   | 323        | 214         | 66.3              | 124               | 57.9%          | .384          | \$4.02      |

| •                  |       |                 |               |            |              |       |           |
|--------------------|-------|-----------------|---------------|------------|--------------|-------|-----------|
| ,e                 | ° #   | #               | <b>7</b> .    | #          | ر<br>*       | P/JTM | JTM       |
| . '                | Cat I | Placed          | <u>Placed</u> | <u>JTM</u> | JTM          | Rate  | Wage      |
|                    |       |                 |               | •          |              |       |           |
| 161 Flatwoods      | 9     | 7               | 77 08         | -          | /            |       |           |
| 350 Harpers Ferry  | 4     | 2               | 77.8%         | ., 5       | 71.4         | .556  | \$5.29    |
| 031 Pine Knot      | 11    | 6               | 50.0          | 1          | 50.0         | .250  | 4.67      |
| 058 LBJ            | 13    |                 | 54.6          | 4          | 66.7         |       | 4.10      |
| 059 Schenck*       | 9     | 9<br>9          | 69.2          | 7          | 77.8         | 1.539 | 4.34      |
| 258 Great Onyx     | 7     | 4.              | 100.0         | 7          | 77.8         | .778  | 3.94      |
| 070 Jacobs Creek*  | 10    | 10              | 57.1          | . 4        | 100.0        | .571  | 3.91      |
| 300 Oconaluftee    | 10    | 5               | 100.0         | 10         | 100.0        | 1.00  | 4.54      |
| 082 Blackwell      | 3     | 2               | 50.0          | 3          | 60.0         | .300  | 4.17      |
| 109 Golconda       | ~ 5   | 4               | 66.7          | Ş          | 100.0        | .667  | 7.04      |
| 009 Cass           | 7     | 6               | 80.0          | 4 .        | 100.0        | 800   | 2.95      |
| 098 Ouchita        | íí    | 9               | 85.7          | 5 .        | 83.3         | .714  | 4.00      |
| 305 Treasure Lake  | 10    | 8               | 81.8          | 6          | 66.7         | .546  | 3.84      |
| 057 Pine Ridge     | 7-    | 5               | 80.0          | 5          | 62.5         | .500  | 4.65      |
| 270 Mingo          | . 4   | 1 .             | 71.4          | . 2        | 40.0         | .286  | 3.03      |
| 172 Anaconda       | 10    | 6               | 25.0          | 1          | 100.0        | .250  | 2.30      |
| 046 Trapper Creek  | 6     | 2               | 60.0          | 3          | 50.0         | .300  | 3.89      |
| 088 Boxelder       | 10    | 9               | 33.3          | <u> </u>   | -            | -     | -         |
| 243 Collbran.      | 5     | 3               | 90.0          | 6          | 66.7         | .600  | 3.41      |
| 323 Weber Basin    | 3     | 2               | 60.0<br>66.7  | 2          | 66.7         | .400  | 4.00      |
| 064 Timber Lake    | 12    | 9               | 75.0          | 1          | 50.0         | .333  | 4.75      |
| 078 Curlew         |       | 5               | 100.0         | 6          | 66.7         | .500  | 4.30      |
| 144 Augell         | 7 7   | 5               | 71.4          | 3          | 60.0         | .600  | 5.11      |
| 145 Wolf Créek     | 13    | 9               | 69.2          | 1<br>5.    | 20.0         | .143  | 4.00      |
| 251 Marsing        | . 8   | `5 <sup>~</sup> | 62.5          | · 1        | 55.6         | .385  | 5.61      |
| 340 Ft. Simcoe     | 16    | 10              | 62.5          | 7          | 20.0         | .125  | 2.30      |
| 343 Columbia Basin | 17    | 14              | 82.4          | 7          | 70.0         | .438  | 4.56      |
| 608 Rio Grande     | 1     | 0               | 02.4          | ,          | 50.0         | .412  | 3.65      |
| 740 LA             | j     | i '             | ,100.0        | 1          | 100.0        | 1 00  | ~<br>0.00 |
| 776 Tongue Point   | 2     | 2,              | 100.0         | _          | 100.0        | 1.00  | 9.99      |
| 801 NJ             | 17    | 10              | 58.8          | 4          | -            | -     | -         |
| 770 Keystone       | 6     | 6               | 100.0         | 3          | 40.0         | .225  | 3.05      |
| 401 Phoenix        | 14    | 11              | 78.6          | 3<br>9     | 50.0<br>81.8 | .500  | 4.08      |
| 806 Hawaii         | 2     | 1               | 50.0          | 9          | 91.8         | .643  | 4.89      |
| 906 Breckenridge   | 51    | 31 ·            | 60.8          | 10         | -<br>32 2    | 106   | 2 00      |
| 903 Gary           | 37    | 27              | 73.0          | 10         | 32.3         | .196  | 3.08      |
| •                  |       |                 | 75.0          |            | 37.0         | .270  | 3.89      |
| TOTAL              | 363   | 255             | 70.3%         | 145        | 56.9%        | .399  | \$4.36    |

### 07F/27F Heavy Equipment Operator (Male)

| •                 | Cat I        | #<br>Placed | 7<br>Placed | #<br>JTM |                | /JTM<br>Rate | JTM<br>Wage |
|-------------------|--------------|-------------|-------------|----------|----------------|--------------|-------------|
| 161 71 strengto * | . 1          | 1           | 100.0%      | 1.       | 100.0%         | 1.00         | \$2.75      |
| 161 Flatwoods     | 1 .          | ō           | -           | `-       | -              | _            | <b></b>     |
| 031 Pine Knot     | 24           | 17          | 70.8        | 15       | 88.2           | .625         | 4.81        |
| 070 Jacobs Creek  | 14           | 7 .         | 50.0        | 7        | 100.0          | .500         | 4.95        |
| 082 Blackwell     |              | 6           | 60.0        | 5        | 00.0           | <b>FAA</b>   | 4.75        |
| 109 Galconda      | 10           | 0           | 72.7        | 1        | 83,3 ;<br>12.5 | .091         | 2.30        |
| 009 Cass          | 11           | 0           | 100.0       | _        | _              | _            | _           |
| 098. Quchita      | 1            | 1           | 100.0       |          | _ ,            | · 🕳          | ·_          |
| 051 Pine Ridge    | 1 ,          | Ü           | -           | -        | ~ 25.0         | .143         | 4.00        |
| 770 Mingo •       | 7            | 4           | 57.1        | 1        | 100.0          | .333         | 5.50        |
| 046 Trapper Creek | 3            | .1          | 33.3        | 1        |                | .214         | 4.97        |
| 172 Anaconda      | 14 '         | 9           | 64.3        | . 3      | 33.3           |              | 6.48-       |
| 243 Collbran      | 12           | 10          | 83.3        | 4        | 40.0           | .333         |             |
| 323 Weber Basin   | 13           | 6           | 46.2        | 6        | 100.0          | .462         | 5.66        |
| 078 Curlew        | ` <b>3</b> ° | 2           | 66.7        | 1        | 50.0           | <b>6.333</b> | 8.05        |
| 144 Angell        | 1            | 0           | -           | -        | <b>-</b>       | -            |             |
| 340 Ft. Simcoe    | 15           | 8           | 53.3        | 5        | 62.5           | .333         | 5.69        |
| 605 Arecibo       | 3            | 3           | 100.0       | ' 1      | 33 <b>.3</b>   | .333         | 3.50        |
|                   | 29           | 16          | 55.2        | 6        | 37.5           | .207         | 6.55        |
| 840 Kicking Horse | 60           | 38          | 63.3        | 6        | 15.8           | .100         | 4.00        |
| 906 Breckenridge  |              |             | 84.2        | 13       | 40.6           | .342         | 4.00        |
| 903 Gary          | _38_         | 32          |             |          | <del></del>    |              |             |
| TOTAT.            | 261          | 169         | 64.8%       | 76       | 45.0%          | .291         | . \$4.93    |

| 25 L | · 1      |      |       |   | -   |       | _   |
|------|----------|------|-------|---|-----|-------|-----|
| 07G  | The said | مفقم | Dana  | ł |     | ·/W-1 | -١  |
| 0/0  | Full     | HALE | REDA. |   | un. | (MAI) | р., |

| ***            | Cat I | #<br>Placed | 7<br>Placed | #<br>JTM | 7 P/JTM<br>JTM Rate | JTM<br>Wage |
|----------------|-------|-------------|-------------|----------|---------------------|-------------|
| 816 Cincinnati | 7     | 0           | •           |          |                     |             |

# 07H Plumber (Male)

|                   | ¢, ° Cat I | #<br>Placed   | %<br>Placed | #<br>JTM | Z I   | P/JTM<br>Rate | JTM<br>Wage |
|-------------------|------------|---------------|-------------|----------|-------|---------------|-------------|
| 608 Rio Grande    | 8          | * 6 * * *     | 75.0%       | . 1      | 16.7% | .125          | \$2.25      |
| 831 Woodstock     | 3          | 3             | 100.0       | 3        | 100.0 | 1.00          | 3.75        |
| 836 Whitney Young | 2          | ,1            | 50.0        | 1        | 100.0 | .500          | 3.00        |
| 906 Breckenridge  | 32         | . <i>ž</i> i8 | 56.3        | 5        | 27.8  | .156          | 2.99        |
| 905-Atterbury     | 16         | 7             | 14.3        | : 1      | 14.3  | .063          | 2-88        |
| TOTAL '           | 61         | 35            | 57.4%       | 11       | 31.4% | .180          | \$3.12      |

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| _                  | · _         | • •       | •          |            |       |       |        |
|--------------------|-------------|-----------|------------|------------|-------|-------|--------|
| • •                | #           | . #       | , <b>%</b> | # '        | 7     | P/JTM | JTM    |
| •                  | Cat I       | Placed    | Placed     | <u>JTM</u> | JTM   | Rate  | Wage . |
| 161 Flatwoods      | 9           | 8         | 83.9%      | 4          | 50.0% | .444  | \$4.37 |
| 350 Harper's Ferry | 2           | , 2       | 100.0      | ·I         | 50.0  | .500  | 4.50   |
| 258 Great Onyx     | 10          | 5         | 50.0       | 2          | 40.0  | .200  | 3.93   |
| 300 Oconaluftee    | <b>3</b> ·  | 2 .       | 66.7%      | -          | -     | _     | -      |
| 098 Ouchita        | 8           | 7         | 87.5       | 5          | 71.4  | .625  | 4.78   |
| 305 Treasure Lake  | <b>10</b> ′ | 10        | 100.0      | 9          | 90.0  | .900  | 4.89   |
| 051 Pine Ridge     | 5           | <b>4</b>  | 80.0       | 3          | 75.0  | .600  | 6.05   |
| 064 Timber Lake    | 12          | 11        | 91.7       | 11         | 100.0 | .91.7 | 6.05   |
| :145 Wolf Creek    | 9           | 7 ~ ~     | 77.8       | 5          | 71.4  | .556  | 5.75   |
| 340 Ft. Simcoe     | 7           | 3         | 42.9       | 1 .        | 33.3  | .143  | 5,00   |
| 343 Columbia Basin | , 10        | 8 🐴       | 80.0       | 6          | 75.0  | .600  | 5.31   |
| 770 Keystone       | ` 6         | 6 "       | 100.0      | 3          | 50.0  | .500  | 5.60   |
| 831 Woodstack      | 1           | 1         | 100.0      | 1          | 100 0 | 1.00  | 6.00   |
| 737 Cleveland      | 1           | 1 .       | 100.0      | i          | 100.0 | 1.00  | 4.00   |
| 401 Phoenix        | 3           | <b>´2</b> | 66.7       | 1          | 50.0  | .333; | 7.08   |
| 403 Phoenix        | 4           | 2         | 50.0       | 2          | 100.0 | .500  | 5.08   |
| 903 Gary           | 12          | 9         | 75.0       | _3         | 33.3  | 250   | 3.55   |
| TOTAL              | 112         | 88        | 78.6%      | 58         | 65.9% | .518  | \$4.99 |

|  |       | - 7, | Section 2 |
|--|-------|------|-----------|
| .07J Tile                              | 坐板 なん |      | (31-12-1  |
| :::::::::::::::::::::::::::::::::::::: | secc  | er.  | (MAIE)    |

|                | <b></b> |        |                   | <b>,*</b>           |             |
|----------------|---------|--------|-------------------|---------------------|-------------|
|                | Cat I   | Placed | Z #<br>Placed JTM | % P/JTM<br>JTM Rate | JTM<br>Wage |
| 816 Cincinnati | 1       | r      | 100% 1            | 100% 1.00           | \$3.00      |

|                     |       |        |                |     |                   | 1     |          |  |
|---------------------|-------|--------|----------------|-----|-------------------|-------|----------|--|
|                     | #     | ` . #  | <b>%</b> ·     | #   | <b>%</b>          | MTĽ\9 | JTM ·    |  |
|                     | Cat I | Placed | Placed.        | JTM | JTM               | Rate  | Wage     |  |
| 161 Flatwoods       | 2     | 2      | 100.0%         | 1   | 50.0%             | .500  | \$5.50   |  |
| 350 Harper 's Ferry | 2     | 2      | 100.0          | 1   | 50.0              | .500  | 6.50     |  |
| 078 Curlew          | 17    | 12     | 70.6           | 7   | 58.3              | .412  | 5.03     |  |
| 2031 Pine Knot      | - 28  | -11    | 39.3           | 5   | 45.5              | .179  | 3.85     |  |
| 758 Great-Onyx      | 7     | 4      | 57.1           | 1   | 25.0              | .143  | 2.30     |  |
| 1144 Angel1 1       | 7 📝   | 4      | 57.7           | 1   | 50.0              | .286  | 3.33     |  |
| 145 Wolf Creek      | 9,    | 6      | 66.7           | 3   | 50.0              | .333  | 3.50     |  |
| -251 Marsing        | 9ົ    | 8      | 100.0 '        | 4   | 25.0              | .250  | 4.09     |  |
| 831 Woodstock       | _2    | _0     | / <del>-</del> |     |                   |       | <u> </u> |  |
| TOTAL               |       | . ,    | 50 0 <b>%</b>  | 0.6 | 40.0 <del>*</del> | 200   | 00 00    |  |

| •                        | -     |             |               |           |            | •             |          |
|--------------------------|-------|-------------|---------------|-----------|------------|---------------|----------|
| •                        | # .   | <i>₺</i>    | 7.            | #         | <b>%</b> ` | P/JTM         | JTM 🔞    |
|                          | Cat I | Placed      | <u>Placed</u> | JTM       | <u>JTM</u> | <u>Rate</u> . | Wage     |
| 161 Flatwoods            | 18    | ~16···      | 88.9%         | 12        | 75.0%      | .667          | \$4.01   |
| 350 Harper's Ferry       | ٠ 9   | 6 →         | 66.7          | 3         | 50.0       | .333          | 4.25     |
| 070 Jacobs Creek         | 10 ·  | 7           | 70.0          | 5         | 71.4       | .500          | 3.08     |
| 009 Cass                 | 8     | 5           | 62.5          | 3         | 60.0       | .375          | 3.08     |
| 098 Ouchita              | 7     | . 6         | 85.7          | 3         | 50.0       | .429          | 3.82     |
| 305 Treasure Lake        | 1     | 1           | 100.0         | 1         | 100.0      | 1.00          | 7.00     |
| 084 Boxelder             | - 21  | 17          | 81.0          | 5         | 29.4       | .238          | 2.87     |
| 243 Collbran             | 12    | 8           | 66.7          | 4         | 50.0       | .333          | 5.21     |
| 323 Weber Basin          | 1     | 1           | 100.0         | 1         | 100.0      | 1.00          | 3.94     |
| 144 Angell               | 35    | 21          | 60.0          | 2         | 9.5        | .057          | 3.01     |
| 340 Ft. Simco            | 12    | 7           | 58.3          | 1         | 14.3       | .083          | 5.94 -   |
| 737 Cleveland            | 1     | 1           | 100.0         | 1         | 100.0      | 1.00          | 4.99     |
| 741 LA                   | 1     | 1           | 100.0         | -         | _          | -             | _        |
| 831 Woodstock            | 2     | 0           | _             | ~i_       | <b>-</b> . |               | 。 · —    |
| 836 Whitney Young        | 10    |             | 20.0          | _         |            | _             | _ + '    |
| 431 Detroit              | 21    | 15          | 71.4          | 13        | 86.7       | .619          | 3.64     |
| 817 Cincinnati           | 5     | 5           | 100.0         | 5         | 100.0      | 1.00          | 3.82     |
| 819 Mississip <u>n</u> i | 1 ·   | 1           | 100.0         | 1         | 100.0      | 1.00          | 3.50     |
| 857 Tulsa                | ` 4   | 2           | 50.0          | 1         | 50.0       | .250          | 3.50     |
| 442 San Jose             | 7     | 6           | 85.7          | 5         | 83.8       | .718          | 3.74     |
| 443 San Jose             | 1     | 1           | 100.0         | -         | -          | _             | <u>م</u> |
| 806 Hawai‡               | 8     | 4           | 50.0          | 2         | 50.0       | .250          | 3.25     |
| 905 Atterbury            | _54_  | <u>31</u> . | 57.4          | <u>11</u> | 35.5       | .204          | 3.47     |
| TOTAL                    | 249   | 164         | 65.9          | 79        | 48.2%      | .317          | \$3.75   |

| 1                                     |       |        |        |            |        |       | y               |
|---------------------------------------|-------|--------|--------|------------|--------|-------|-----------------|
| î                                     | #     | #      | 7.     | #          | z      | P/JTM | JTM             |
| · · · · · · · · · · · · · · · · · · · | Cat I | Placed | Placed | JTM        | JTM    | Rate  | Wage            |
| 058 LBJ                               | 8     | 7      | 87.5   | 7          | 100.0% | .875  | \$3.33 <i>]</i> |
| 300 Oconalúftee                       | 37    | 25     | 67.6   | 8          | 32.0   | .216  | 3.55 °          |
| `270 Mingo                            | 26    | · 19   | 73.1   | 13         | 68.4   | .500  | 4.27            |
| 145 Wolf Creek                        | . 13  | 12     | 92.3   | 5          | 41.7   | .386  |                 |
| 251 Marsing                           | 21    | 15     | 71.4   | 5          | 33.0   | .238  | 4.25            |
| 343 Columbia Basin                    | 14    | 12     | 85.7   | 9          | 75.0   | .643  | 4.23            |
| 737 Cleveland                         | 2     | 1      | 50.0   | -          | _      |       |                 |
| 750 Excelsior Springs                 | 17    | 17 ~.  | 100.0  | 11         | 64.7   | .647  | 3.27            |
| 741 LA                                | 2     | 2 .    | 100.0  | 1          | 50.0   | .500  | 6.85            |
| 776 Tongue Point                      | 12.   | 11     | 91.7   | 8          | 72.7   | .667  | 3.98            |
| 801 NJ                                | 5     | 3      | 60.0   | 2          | 66.7   | .400  | 2.80            |
| 431 Detroit                           | 16    | 12     | 75.0   | \ <u>9</u> | 75.0   | .563  | 2.58            |
| 816 Cincinnati,                       | 5     | 4      | 80.0   | eQ_        | -      | - 202 | 2.50            |
| 817 Cincinnati                        | 1 ,   | 1      | 100.0  | _          | _      | _     | -               |
| 818 Cincinnati                        | 1     | 1      | 100.0- | _          | _      | _     | -               |
| 442 San Jose                          | 15    | 14     | 93.3   | ໍ 10       | 71.4   | .667  | 2 30            |
| 443 San Jose                          | 1     | 1 '    | 100.0  | 1          | 100.0  | 1.00  | 3.30            |
| 446 Šan Jose                          | 2     | 2      | 100.0  | 1          | 50.0   | .500  | 3.50            |
| 905 Atterbury                         | 18    | 12     | 66.7   | _5         | 41.7   | .278  | 3.00<br>3.30    |
| TOTAL                                 | 216   | 171    | 79.2%  | 95         | 55.6%  | .440  | \$3.60          |

## 07/27 Construction Trades (Female)

| pal y hid the data for visit and risk state options y and anythin long gap | # .   | # .    | 7.            | # -        | 7       | P/JTM          | # JTM             |
|--|-------|--------|---------------|------------|---------|----------------|-------------------|
| •  | Cat I | Placed | <u>Placed</u> | <u>JTM</u> | JTM     | Rate           | Wage              |
| 146 Angell   | 14    | . 7    | 50.0%         | 3          | 42.9%   | .215           | \$4.07.           |
| 716 Keystone   | · 4   | 3      | 75.0          | 2          | , 66.7  | .500           | 5.18              |
| 701 Cleveland  | 5 ·   | 4      | 80.0          | 3          | 75.0    | .600           | 5.30              |
| 706 Excelsior Springs  | ·7    | 4 .    | 5 <b>7 1</b>  | 1          | 25.0    | .143           | 5.73              |
| 702 LA   | 6     | 5      | 83.3          | ` ·3       | 60.0    | .500           | 6.45              |
| 717 Tongue Point   | 14    | 11 '   | 78.6          | . 7 ·      | 63.6    | .500           | 4.27 .            |
| 437 Detroit  | 1     | 0      | -             | -          | _       | - ,            |                   |
| 845 Cincinnati   | 1     | 1      | 100.0         | -          | -       | <del>-</del> . |                   |
| 405 Phoenix  | 8     | . 5    | 62.5          | 3          | 60.0    | .375           | <sup>7</sup> 5.50 |
| 407 Phoenix  | 4     | ` 4    | 100.0         | 4          | 100.0   | 1.00           | 5.33              |
| 934 Breckenridge   | 4     | 0      |               | -          |         | _              | <b>-</b>          |
| 926 Atterbury  | _1_   | _0     |               | · <u>-</u> |         |                |                   |
| TOTAL .  | 69    | . 44   | 63.8%         | 26         | . 59.1% | .377           | \$4.81            |

#### 07A/27A Carpenter Construction (Female)

| ,             | . <u>Cat I</u> | #<br>Placed | %<br>Placed | #<br><u>JTM</u> | X<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|---------------|----------------|-------------|-------------|-----------------|----------|---------------|-------------|
| ,             | ,              | ,           |             |                 | •        | •             | •           |
| 146 Angell    | 4              | 2           | 50.0%       | 2               | 100.0%   | .500          | \$3.73      |
| 716 Keystone  | 1              | 1,          | 100.0       | -               | -        | -             | -           |
| 701 Cleveland | 1              | ì           | 100.0       | -               | _ ,      | <u> </u>      |             |
| 405 Phoenix   | 3              | 2           | 66.7        | 2               | 100.0    | .667          | 4.94        |
| 407 Phoenix   | _3 .           | <u>3</u>    | 100.0       | 3               | 100.0    | 1.00          | 6.75        |
| TOTAL         | 12             | 9           | 75.0%       | 7               | 77.8%    | .583          | \$6.23      |

## 07B Electrician (Female)

| • | • | Cat I | #<br>Placed | Placed | JTM | JTM  | P/JTM<br>Rate | JTM Wage   |
|---|---|-------|-------------|--------|-----|------|---------------|------------|
| 717 Tongue Poi                          |   | . 1   | 1 `         | 100%   | 1 = | 100% | 1.00          | \$3.00<br> |
| TOTAL '                                 |   | . 2   | 1           | ,50%   | 1   | 100% | .500          | \$3.00     |

07C Cement Mason

| <i>.</i> | # Cat I | #<br>Placed | %<br>Placed | #<br>JTM | %<br>JTM |   | JTM<br>Wage |
|----------|---------|-------------|-------------|----------|----------|---|-------------|
| 702 LA   | 1       | 1           | 100%        | -        | _        | _ | ·       `   |

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# 07D/27D Brick/Stone Mason

|   | Cat I    | #<br>Placed | Z<br>Placed | JTM            | JTM | P/JTM<br>Rate | Wage        |
|---|----------|-------------|-------------|----------------|-----|---------------|-------------|
| 716 Keystone<br>405 Phoenix<br>934 Breckenridge | . 1<br>1 | 0<br>1<br>0 | 100%        | : <del>-</del> | _ ; | -<br>-<br>-   | -<br>-<br>- |
| TOTAL   | 3        | . 1         | 33.3%       | -              |     | _             | -           |



|      | e' \         |    | #<br>Cat.I | #<br>Placed |   | %<br>Placed | #<br>JTM | 7<br>JTM | P/JTM<br>Rate | JTM<br>Wage |   |
|------|--------------|----|------------|-------------|---|-------------|----------|----------|---------------|-------------|---|
| Ì46  | Angell       |    | 4          | 2           |   | 50.0%       | _        | _        | _             | ~,          |   |
| 702  |              | ٠, | ` 4        | 3           | • | 75.0        | 1        | 33.3%    | .250          | \$6.75      |   |
| 716  | Keystone     |    | 1          | 1           |   | 100.0       | ì        | 100.0    | 1.00          | 5.40        |   |
| 717  | Tongue Point |    | 1          | 0           |   | - •         | _        | _        |               |             | _ |
| ▶405 | Phoenix      |    | 2          | 0           |   | _           | _        |          |               |             |   |
| 407  | I hoenix     |    | 1          | 1           |   | 1.00.0      | ï        | 100.0    | 1.00          | 5.07        |   |
| 934  | Breckenridge |    |            | <br>0       |   | · <u> </u>  |          |          |               |             |   |
| TOTA | IL .         |    | 15-        | 7           |   | 46.7%       | 3        | 42.9%    | .200/         | \$5.74      |   |

| •            | * . # | #          | 7-     | 1   | <b>7</b> . | P/JTM | JTM    |   |
|--------------|-------|------------|--------|-----|------------|-------|--------|---|
|              | Cat   | I Placed   | Placed | JTM | <u>JTM</u> | Rate  | Wage   | • |
| 116-Keystone | . 1   | , 1        | ` 100% | 1   | 100%       | 1.00  | \$4.96 |   |
| 405 Phoenix  | 2     | · <b>2</b> | 100%   | 1   | 50%        | .500  | 8.00   | • |
| TOTAL -      |       | 3          | 100%   | 2   | 66.7%      | .667  | \$6.48 |   |
| IOIWĖ        | 3     | 3          | 200%   | -   | 00111      |       | ,      |   |

| 4.5 - 4 |     | 1 .    | × 4  | , ,  |
|---------|-----|--------|------|------|
| 07L S   | not | Welder | (Fem | ale) |

|                | Cat I | #<br>Placed | %<br>Placed | ∦<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|----------------|-------|-------------|-------------|----------|----------|---------------|-------------|
| 146 Angell     | 6     | 3           | 50.0%       | .1       | 33.3%    | .1.67         | \$4:74      |
| 701 Cleveland  | 3     | 2           | 66.7        | . 2      | 100.0    | .667          | 5.50/       |
| 702 LA         | 1     | 1           | 100.0       | ī        | 100.0    | 1.00          | 4.50        |
| 437 Detroit    | 1     | 0           | •           | ·        |          | _             | -           |
| 845 Cińcinnati | 1     | 1           | 100.0       |          |          |               |             |
|                | 12    | 7           | EO 24       | ۸.       |          | 224           | A           |

|                       | #<br>Cat I | * #<br>Placed      | %<br>Placed | #<br>JTM | %<br>JTM | P/JTM<br>Rate | JTM -<br>Wage |
|-----------------------|------------|--------------------|-------------|----------|----------|---------------|---------------|
| 701 Cleveland         | 1          | , <del>- 1 ·</del> | 100.0%      | 1        | 100.0    | 1.00          | \$4.90        |
| 706 Excelsior Springs | 7.         | 4                  | 57.1        | 1        | 25.0     | .143          | 5.73          |
| 717 Tongue Point      | 12° ·      | 10                 | 83.3        | 3        | 30.0     | .250          | 5.85          |
| 926 Atterbury         | <u> 1</u>  | _0                 | **          | _=       |          |               | <del>-</del>  |
| TOTAL                 | , •21      | . 15               | 71.4%       | 5 .      | 33.3%    | .238          | \$5.64        |

|                   | •          |          |             | •          | •     |       |              |
|-------------------|------------|----------|-------------|------------|-------|-------|--------------|
| · · · · · · /     | . #        | · # ·    | 7           | đ          | 7     | P/JTM | JTM          |
| ~: /. ~ ·         | Cat I      | Placed   | Placed      | JTM        | JTM   | Rate  | Wage         |
| 605 Arecibo       | 29         | 26       | 89.7%       | 21         | 80.8% | .724  | 60 4         |
| (801: NJ) /       | 1          | 0.       | 0           |            | -     | .724  | \$2.4        |
| 826 Pittsburgh    | · 2        | 2*       | 100.0       | 1          | 50.0  | .500  |              |
| 836 Whitney Young | · 8 ·      | 4        | 50.0        | ī          | 25.0  | .125  | 3.81<br>4.50 |
| 854 Atlanta       | 1.         | 1 .      | 100.0       | ī          | 100.0 | 1.00  | 3.G          |
| 442 San Jose      | 3          | 2        | 66,7        | 2          | 100.0 | .667  | 3.7          |
| 443 San/Jose      | 1          | 1        | 100.0       | ( <u>1</u> | 100.0 | 1.00  | 4.5          |
| 806 Hawaii        | . 1        | 1 .      | . 100.0     | 1 1        | 100.0 | 1.00  | 3.25         |
| 906 Breckenridge  | 106        | 69       | 65.1        | ί 8        | 11.6  | .076  | 2.88         |
| 903 Gary          | <u>· 9</u> | <u> </u> | <u>55.6</u> | 1_1        | 20.0  | .111  | 3.0          |
| TOTAL             | ' 161      | 111      | 68.9%       | 37         | 33.3% | .230  | \$2.71       |

# 08A Air Conditioning Repair Mechanic (Male)

|   |        | #<br>Cat I          | #<br>Placed    | %.<br>Placed          | #<br>JTM           | 7<br><u>JTM</u> | P/JTM:<br>Rate | JTM<br>Wage    |
|---|--------|---------------------|----------------|-----------------------|--------------------|-----------------|----------------|----------------|
| 836 Whitney Young<br>906 Breckenridge<br>903 Gary | :.<br> | 8<br>96<br><u>6</u> | 62<br><u>4</u> | 50.0%<br>64.6<br>66.7 | -<br>6<br><u>1</u> | 9.7%<br>25.0    | .063<br>.167   | \$2.79<br>3.00 |
| ποπάτ   |        | 110                 | 70             | 63.6%                 | 7                  | 10.0%           | .091           | \$2.82         |

# 08B Air Conditioning Installer (Male)

|                  | Cat I | #<br>Placed | %<br>Placed | # JTM ·       | 7 P/JTM<br>JTM Rate | JTM<br><u>Wage</u> |
|------------------|-------|-------------|-------------|---------------|---------------------|--------------------|
| 906 Breckenridge | 2     | Ž           | 100.0%      | i<br>Kana ≟   |                     |                    |
| 903 Gary         | , 2   | 1 ,         | 50.0        | - <del></del> |                     |                    |
| TOTAL            | 4     | 3           | 75.0%       |               |                     | _                  |

08C Electricial Appliance Repair (Male)

|                 | Cat I Placed | Z<br>Placed JTM | %<br>JTM | P/JTM JTM<br>Rate Wage |
|-----------------|--------------|-----------------|----------|------------------------|
| 80 <u>1</u> NJ: | 1 0          | , o -           | <b>.</b> |                        |

|                                | ( #:<br>Cat I | #<br>Placed   | 7<br>Placed | #<br>JTM            | JTM    | P/JTM<br>Rate | JTM<br>Wage    |
|--------------------------------|---------------|---------------|-------------|---------------------|--------|---------------|----------------|
| 806 Hawali<br>906 Breckenridge | <u>1</u> ′    | 1<br><u>5</u> | 100.0%      | 1 .<br>- <u>1</u> : | 100.0% | 1.00<br>.250  | \$3.25<br>3.17 |
| TOTAL                          | 9             | 6             | 66.7%       | 3                   | 50.0%  | .333          | \$3.20         |



#### 08G Electrician Helper (Male)

|                            | Cat I      | Placed  | 7<br>Placed    | JTM      | JTM   | P/JTM<br>Rate | JTM<br>Wage |
|----------------------------|------------|---------|----------------|----------|-------|---------------|-------------|
| 605 Arecibo<br>854 Atlanta | 29·<br>_1_ | 26<br>1 | 89.7%<br>100.0 | 21<br>_1 | 80.8% | .724<br>1.00  | \$2.45      |
| ŤŎŤĂŤ                      | 30         | 27      | 90:0%          | 22       | 81.5% | .733          | \$2.48      |

08X Other (Male)

|  | Cat I                  | #<br>Placed | 7<br>Placed             | #<br><u>JTM</u> |                 | JTM Rate          | JTM<br>Wage    |
|--|------------------------|-------------|-------------------------|-----------------|-----------------|-------------------|----------------|
| 876 Pittsburgh<br>442 San Jose<br>443 San Jose | 1;<br>3,<br><u>1</u> ′ | 1<br>2<br>1 | 100.0%<br>66.7<br>100.0 |                 | 100.0%<br>100.0 | -<br>.667<br>1.00 | \$3.75<br>4.50 |
| TOTAL  | 5                      | ° 4         | 80.0%                   | 3               | 75.0%           | .600              | \$4.00         |

## Cluster 08/28 Electrical Appliance Repair (Female)

|   | # .<br>Cat I            | Placed.                 | %<br>Placed    | JTM        | Z<br>JTM . | P/JTM<br>Rate | JTM * |
|---|-------------------------|-------------------------|----------------|------------|------------|---------------|-------|
| 701 Cleveland<br>702 LA<br>807 Hawaii<br>934 Breckenridge | 1<br>1<br>1<br><u>2</u> | 0<br>0<br>1<br><u>1</u> | 0<br>0<br>100% |            | - ` ` -    | ¥ -           |       |
| TOTAL   | . 5                     | . 2                     | 40%            | <u>-</u> ° | -          |               | •• •  |

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#### 08A Air Conditioning Ref. Mech. (Female)

| 701 Cleveland 1 0 0      | •- • |
|--------------------------|------|
| 807 Hawaii 1 1 100%      | •    |
| 938 Breckenridge 2 1 50% | i    |
| mon41                    |      |

<del>-</del>, 197 -

|  |   | #1              |       |  | . "        | •        | an I want         | · viena                               |
|--|---|-----------------|-------|--|------------|----------|-------------------|---------------------------------------|
|  | * *                                     | Cat I           | Place | d Place                                  | ed JTM     | 7<br>JTM | P/JTM<br>, Rate   | JIM · Wage                            |
|  |   |                 |       | ,  | •          | •        |                   | * \$ 38.                              |
| 702 LA   | *                                       |                 | . 0   | . 0                                      | <b>-</b> : |          | -                 | - 2                                   |
| the state of the s | • • • •                                 |                 |       | ئە ۋ.<br>                                | • , •      |          |                   |                                       |
|  | ,                                       | To September 25 |       |  |            |          |                   |                                       |
| Part Section of the Control of the C | • :                                     |                 |       |  |            |          | <u> </u>          |                                       |
|  | , .                                     |                 | •     |  |            |          | 34°               | * * *                                 |
|  | • |                 | •     | •  |            | •        |                   |                                       |
|  |   |                 |       |  | ٠,         | •        |                   |                                       |
|  | •                                       | •               | •     |  | <b>y</b>   |          | · .               | , , , , , , , , , , , , , , , , , , , |
|  | . •                                     | •               |       |  | •          |          | 1                 |                                       |
|  |   | •               |       | ·  |            | -        |                   |                                       |
|  | •                                       | •               | 8     |  |            | m        | ·.                |                                       |
|  | •                                       |                 | ,     |  |            |          | -*                | · · · · · · · · · · · · · · · · · · · |
|  | •                                       |                 | . •   |  | •          |          |                   |                                       |
|  | •                                       | •               |       |  |            | ,        |                   |                                       |
|  | 0                                       | *               | •     |  |            | •        |                   |                                       |
|  | 1                                       |                 |       | •  |            |          | •                 | •                                     |
|  |   |                 | •     |  |            |          |                   |                                       |
| 9-   | •                                       |                 |       |  |            | هيدا     |                   | <del></del> .                         |
|  | •                                       | ١               | •     | •  |            |          |                   |                                       |
|  |   | 8               |       |  | ٧          |          |                   |                                       |
| e Charles  |   | •               | 1     | •  |            |          |                   | ·                                     |
| A service of the service of  |   | •               | •     | ·  |            |          | -                 | •                                     |
|  | •                                       | •               | •     |  |            |          |                   |                                       |
|  |   |                 | •     |  |            |          |                   |                                       |
| <b>,</b>   | •                                       |                 | -     |  | •          |          | •                 |                                       |
| .`<br>K.   |   |                 |       | -  |            |          |                   | ?                                     |
|  |   |                 |       | e dip og gjend til Milledill alle kliker |            |          | , 10 State (1880) | *                                     |
|  | * 9 100                                 |                 | ٤     | . •                                      |            | •        | •                 |                                       |
|  | •<br>                                   |                 |       |  |            | •        |                   | •                                     |
|  | ,                                       |                 |       |  |            |          |                   | · · · · · · · · · · · · · · · · · · · |
| 7  |   |                 |       |  |            |          |                   | •                                     |

# Cluster 09/29 Industrial Production (Male)

|                       | <u>Cat</u>        | ·;` .<br><u>·I</u> , · | Placed           | Z<br>Placed | #<br>JTM | JTM    | P/JTM Rate        | - JTM<br>Wage |
|-----------------------|-------------------|------------------------|------------------|-------------|----------|--------|-------------------|---------------|
| 161 Flatwoods         | 1.                | •.                     | · ,              | 100.0%      | 1        | 100.07 | 1.00              | \$4.07        |
| 350 Harper's Ferry    | - 13              |                        | 11               | 84.6        | 5        | 45.4   | .385 <sup>-</sup> | 3.09          |
| 031_Pine_Knot_        | 29                |                        | ~ 21 :           | 72.4        | 10-      | 47.6   | .345              | 3.06          |
| 059 Schenck           | 29                |                        | <del>26</del> .  | 89:7-       | 20       | 76.9   |                   | 3.57          |
| 082 Blackwell         | . 33              | •                      | 19               | 57.6        | 13       | 68.4   | .689<br>.394      | 4.31          |
| 109 Golconda          | -: 41             |                        | 34               | 82.9        | ·31      | 91.2   | .394<br>756_      | 3 <u>95</u>   |
|                       | 10                |                        | <del>- 9</del> · | 90.0        | . 8      | 88.9   | <u>,,,,,,,</u>    | 3.58          |
| 305 Tressure Lake     | 10                |                        | 9                | 90.0        | 3        | 33.3   | .300              | 2.75          |
| 051 Pine Ridge        | 7                 | •                      | 3                | 42.9        | 3        | 100.0  | 429               | 4.63          |
| 046 Trapper Creek     | 13                | • •                    | 6                | 46.2        | · 1      | 16.7   | .077              | 2.72          |
| 172 Anaconda          | 46                |                        | · 37·            | 80.4        | 25       | 67.6   | .544              | 3.69          |
| 323 Weber Basin       | 23                | 3                      | 1:5              | .65.2       | 12       | 80.0   | -522              | 3.77          |
| 078 Curlew            | 15                |                        | . 11             | 73.3        | 5        | 45.5   | .334              | 4.04          |
| 251 Marsing           | 8                 | )                      | · 4              | 50.0        |          | 50.0_  | .250              | 3.25          |
| 343 Columbia Basin    | 24                |                        | 21               | 87.5        | 16       | 76.2   | .667              | 3.55          |
| 502 Woodstock         | 1                 |                        | 1                | 100.0       | •_       |        | -                 | 7             |
| 605 Arecibo           | <sup>1</sup> 21 ′ | • •                    | . 19             | 90.5        | 17       | 89.5   | .810              | 2.04          |
| 746 Charleston        | 1                 |                        | 1                | 100.0       | _        | -      | -                 |               |
| 77.0 Keystone         | . 1               |                        | 0                | 0           | _        | _      | _                 | _             |
| *754 Albuquerque      | · 7               |                        | 1,               | 14.3        | 1 `      | 100.0  | .143              | 3.15          |
| 750 Excelsior Springs | 5                 |                        | 5`               | 100.0       | 4        | 80.0   | .800              | 4.71          |
| 776. Tongue Point     | 6                 |                        | 6                | F00.0       | 4 ·      | 66.7   | .667              | 4.47          |
| 801 NJ:               | 14                |                        | 11               | 78.6        | 2        | 18.2   | .143              | 3.62          |
| 826 Pittsburgh        | 20                |                        | -16              | 80.0        | 10       | 62.5   | .500              | 4.57          |
| 811 E1 Paso           | 15                | -                      | 11               | 73.3 .      | 9        | 81.8   | .600              | 2.64          |
| 813 El Paso           | 3                 |                        | 3                | 100.0       | 2        | 66.7   | .667              | 2.92          |
| 857 Túlsa             | 1                 |                        | 1                | 100.0       | _        | _      | + · · ·           |               |
| 401 Phoeniz           | 20                |                        | . 7.             | 35.0        | 3        | 42.9   | .150              | 3.00          |
| 403 Phoenix           | 28                | •                      | 19               | 67.9        | 7        | 36.8   | .250              | 2.87          |
| 442 San Jose          | 48                | •                      | 42               | 87.5        | 34       | 81.0   | .709              | 3.41          |
| 443 San Jose          | 2                 | •                      | . 2              | 100.0       | 2        | 100.0  | 1.00              | 3.75          |
| 446 3an Jose          | 10                |                        | 7                | 70.0        | <b>5</b> | 71.4   | .500              | 3.20          |
| 411 Portland .        | 1 10              | •                      | 9                | 90.0        | 5        | 55.6   | .500              | 4.41          |
| 413 Portland          | 4                 |                        | A                | 100.0       | 3        | 75.0   | .75Ú              | 5.28          |
| 906 Breckenridge      | .260-             |                        | 160              | 61.5        | 87       | 54.4   | .335              | 3.43          |
| 905 Atterbury         | 13 <sup>-</sup>   |                        | 5                | 38.5        | 4        | 80.0   | .308              | 3.67          |
| 903 Gary              | 246               |                        | 177 .            | 72.0        | 120      | 67.8   | .488 \            | 3.52          |
| 910 Clearfield        | 155               |                        | 98 ·             | 63.2        | 66       | 67.4   | .426              | 3.47          |
|                       |                   | •                      |                  |             | ·        |        | •                 | •             |
| TOTAL                 | 1,193             |                        | 832              | 69.7%       | 540 '    | 64.9%  | .453.             | \$3.52 -      |

|                | f Cat I | Placed | % v<br>Placed | Jim       |         | P/JTM - Rate | JTM<br>Wage |
|----------------|---------|--------|---------------|-----------|---------|--------------|-------------|
| 059. Schenck   | - 1     | , " õ  | Ó             | · ;_      | _       | · _          | -           |
| 442 San Jose   | 3       | 3.     | 100.0%        | 2         | 66.7%   | .667         | \$3.37      |
| 443 San Jose   | 1       | 1.     | 100.0         | 2         | 100.0 . | 1.00         | 4.25        |
| 903 Gary       | . 8     | 4      | 50.0          | 1         | . 50.0  | .250-        | -4.59       |
| 910 Clearfield | °47     | 29     | <u>61.7</u>   | <u>19</u> | 65.6    | .405         | <u>3.26</u> |
| TOTAL          | 60      | 37     | 61.7%         | . 24      | 64.9%   | .400         | \$3.42.     |

|   | ` •  |  | • 9  |   |   | ٠   |   |   |
|---|--|--|--|---|---|---|---|---|
| , Sie   | Cat I  | #<br>Placed  | 7<br>Placed  | #<br>JTM                                    | JTM ·   | P/JTM<br>Rate   | JIM<br>Wage   |   |
| 031 Pine Knot 059 Scheuck 082 Blackwell 109 Golconda 009 Cass 305 Treasure Lake 051 Pine Ridge 078 Curlew 251 Marsing 343 Columbia Basin 801 NJ | 28<br>28<br>8<br>5<br>10<br>10<br>7<br>15<br>7<br>24 | 20<br>26<br>3<br>5<br>9<br>3<br>11<br>3<br>21<br>8 | 83.3%<br>92.9<br>37.5<br>100.0<br>90.0<br>90.0<br>42.9<br>73.3<br>42.9<br>87.5<br>80.0 | 8<br>18<br>-<br>5.<br>8<br>3<br>2<br>5<br>1 | 40.0%<br>69.2<br>   | .333<br>.643<br>-<br>1.00<br>.800<br>.300<br>.286<br>.334<br>.143<br>.625 | \$3.09<br>3.61<br>-<br>4.41<br>3.58<br>2.75<br>\$2.75<br>4.04<br>2.25<br>3.58<br>3.62 | • |
| 826 Pittsburgh 811 El Paso 813 El Paso 401 Phoeniz 403 Phoenix 411 Portland 413 ortland 906 Breckenridge 903 Gary                               | 4<br>15<br>3<br>1<br>2<br>10<br>3<br>217<br>184      | 4<br>11<br>3<br>-1<br>1<br>9<br>3<br>138<br>140    | 100.0<br>73.3<br>100.0<br>100.0<br>50.0<br>90.0<br>100.0<br>63.6<br>76.1               | 1 9 /· · · · · · · · · · · · · · · · · ·    | 25.0<br>81.8<br>33.3<br>-<br>55.6<br>33.3<br>50.0<br>65.0 | .250<br>.600<br>.333<br>.500<br>.333<br>.318<br>.495                      | 5.45<br>2.64<br>3.00<br>-<br>4.41<br>6.20<br>3.58<br>3.68                             | , |
| TOTAL   | 591  | 428  | 72.4%  | 244 -                                       | 57.0%   | .413  | \$3.63  |   |

095 Sheer Metal Worker (male)

|                                  | Cat I    | #<br>Placed | Placed         | #<br>JTM | % P/JTM<br>JTM Rate      | JTM.<br>Wage   |
|----------------------------------|----------|-------------|----------------|----------|--------------------------|----------------|
| 172 Anaconda<br>906 Breckenridge | 1,       | 1 20        | 100.0%<br>64.5 | . 1      | 100.0% 1.00<br>15.0 .097 | 2.75<br>2.51   |
| 903 Gary                         | <u>9</u> | <u>.6.</u>  | 66.7<br>65.9%  | 4 8      | 66.7% .444               | 3.25<br>\$2.91 |

## 09D Furniture Upholsterer (Male)

|   | Cat I         | Placed         | %<br>Plačed            | JTM           | JIM                    | P/J1M<br>Rate        | JTM<br>Wage            |
|---|---------------|----------------|------------------------|---------------|------------------------|----------------------|------------------------|
| 605 Arecibo<br>413 Portland<br>903 Gary | 21<br>1<br>26 | 19<br>1<br>18. | 90.5%<br>100.0<br>69.2 | 17<br>11<br>6 | 89.5%<br>100.0<br>33.3 | .810<br>1.00<br>.231 | \$2.04<br>4.00<br>2.55 |
| ŢŎŢĄĹ                                   | 48            | 38             | 63.2%                  | 24            | 63.2%                  | .500.                | \$2.25                 |



#### 09E Electronics Assem. (Male)

|                  | Cat I     | Placed | Placed | JTM                                     | Z<br>JTM    | P/JTM<br>Rate | JIM<br>Wage     |
|------------------|-----------|--------|--------|---|-------------|---------------|-----------------|
| 509 Woodstock    | 1.        | 1      | 100₹0% | . · · · · · · · · · · · · · · · · · · · | -           |               | . <del></del> / |
| 7.54 Albuquerque | 7         | 1      | 14.3   | 1.                                      | 100.0%      | .143          | \$3.15          |
| 801 NJ           | 1         | 18 .   | 100.0  | . <del>- `</del> ·                      | -           | <b>-</b> `-   | y <b></b>       |
| 401 Phoenix      | 19        | . 6    | 31.6   | " <b>3</b>                              | <b>50.0</b> | .158          | 3.00            |
| 403 Phoenix      | 26        | ` 18   | 69.2   | .7                                      | 38.9        | .269          | 2.87            |
| 442 San Jose     | 34        | 30     | 88.2   | .25 .                                   | 83.3        | .735          | 3.39            |
| 443 San Jose     | 1         | 1      | 100.0  | 1                                       | 100.0       | 1.00          | 3.25            |
| 446 San Jose     | 6.        | -3     | 50.0   | 3                                       | 100.0       | 500           | 3.33            |
| 906 Breckenridge | . 2       | 0      | 0      | -                                       |             | -             | <u> </u>        |
| 905 Atterbury    | <u> 1</u> | 1      | 100.0  | 1                                       | 100.0       | 1.00          | 2.50            |
| TOTAL            | 98        | 62     | 63.3%  | 41                                      | 66.1%       | .418          | \$3.24          |



#### 09F Offset Printer (Male)

|   | *              | # "          | <b>*</b> | 1            | <b>X</b> . | P/JTM       | jim :     |
|---|----------------|--------------|----------|--------------|------------|-------------|-----------|
| ***                                     | Cat I          | Placed       | Placed   | JTM          | JTM        | Rate        | Wage      |
| *************************************** | •              |              |          |              | ,          | •           | ,         |
| 350 Harper's Ferry                      | 12             | 10           | 83.3%    | 4            | 40.0%      | .333        | \$3.28    |
| 746 Charleston                          | <sup>†</sup> 1 | 1 .          | 100.0    |              |            |             | · = ·     |
| 776 Tongue Point                        | 1              | 1            | 100.0    | 1            | 100.0      | Ĩ.00        | 5.00      |
| 801 NJ:                                 | <b>.3</b> .    | <b>2</b> .   | 66.7     | _            | <b>-</b>   | ÷           | ` <b></b> |
| 906 Breckenridge                        | 10             | 2            | 20.0     | , <b>-</b>   | <b>-</b> ' | -           | *         |
| 905 Atterbury                           | 12             | . 4          | 33.3     | 2            | 50.0       | 167         | 3.75      |
| 903 Garŷ                                | 18             | , <b>9</b> . | 50.0     | 1            | 11.1       | .056        | 2.50      |
| 910 Clearfield                          |                | <u>6</u>     | 75.0     | <u>.3.</u> . | 50.0       | <u>.375</u> | 2.96      |
| TOTAL -                                 | 65             | <b>3</b> Ś   | 53.8%    | 11           | 31.4%      | .169        | \$3.36    |

09H General Print Trade (Male)

|            |       | *      | Z      | #         | 7.  | P/JŢŃ | JTM                                   |
|------------|-------|--------|--------|-----------|-----|-------|---------------------------------------|
|            | Cat I | Placed | Placed | JTM       | JTM | Rate  | Wage                                  |
| 903: Gary. | i     | . 0    | 0      | <b></b> ' |     |       | · · · · · · · · · · · · · · · · · · · |

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| 3.1 |     | and the same |       | ··· , ·        | er=(Male)                  |
|-----|-----|--------------|-------|----------------|----------------------------|
| 30  | ~** | 10           |       | Value 300 tena | the transfer of the second |
|     | 14K | 1120         | TOTAL | CCCAMPI        | AP KMalal                  |
|     |     |              |       |                |                            |

|                                  |   | Cat I            | Placed              | Placed | JTM    | JTM        | P/ĴTM<br>Rate | JTM<br>Wage |
|----------------------------------|---|------------------|---------------------|--------|--------|------------|---------------|-------------|
| 910 Clearfield<br>826 Pittsburgh | • | 1,<br><u>5</u> . | .1<br>3             | 100.0% | -<br>1 | -<br>33.3% | .200          | \$2.50      |
| TÓTAL                            | • | <u> </u>         | <del>-</del><br>. 4 | 66.7%  | _<br>1 | 25.0%      | .167          | \$2.50      |

## 09L Sewing Machine Operator (Male)

|  |       | #     | X.#      | %      | # - | %     | P/JTM | 2      |
|--|-------|-------|----------|--------|-----|-------|-------|--------|
| And the second s |       | Cat I | Placed . | Placed | JTM | , JTM | Rate  | wage   |
| 161 Flatwoods  | • • • | . 1   | 1        | 100%   | 1   | 100%  | 1.00  | \$4.07 |



#### 09X Other (Male)

| ٠.,         |  | #             | #-                |         |       |             | P/JTM       | JTM           |
|-------------|--|---------------|-------------------|---------|-------|-------------|-------------|---------------|
|             | The state of the s | Cat I         | Placed            | Placed' | JTM   | <u>JTM</u>  | <u>Rate</u> | . <u>Wagé</u> |
|             | Shall share  |               | ,                 | • • •   | ,     |             | ٠.          |               |
|             | 082 Blackwell  | - 25          | -16               | 64.0%   | 11    | 68.8%       | .440        | \$4.32        |
| •           | 109 Golconda   | 36            | . 29              | 66,7    | 25    | 86.2        | .575        | ° 3.86        |
| ,           | 046 Trapper Creek  | 13            | · 6               | 46.2    |       | -           |             |               |
| ·<br>:      | 172 Anaconda   | 45            | 36                | -80.0   | 24 -  | 66.7 ~      | 534         | -3.73         |
| ,           | 323 Weber Basin  | 23            | 15                | 65.2    | - 11  | 73.3        | .478        | 3.7.7         |
|             | 251 Marsing  | 1             | 1                 | 100.0   | . 1 . | 100.0       | 1.00        | 4.25          |
| ` -         | 770 Keystone   | 1 .           | 0.                | 0       | -     | -           |             | ´             |
|             | 750 Excelsior Springs  | 5             | ້5 <sup>ໍ</sup> ້ | 100.0   | , 4   | 80.0        | .800        | 4.71          |
| ٤.          | 776 Tongue Point   | <b>.</b>      | · 5               | 100.0   | 3     | 60.0        | .600        | 4.30          |
| ,           | 857 Tulsa  | 1             | 1                 | 100.0   | -     | <b>.</b> ,  |             | _             |
| 7,          | 442 San Jose   | 11            | 9                 | 81.8    | 3     | 33.3        | .273 '      | 3.16          |
|             | 446 San Jose   | 4             | 4                 | 100.0   | 2     | 50.0        | .500        | 3.00-         |
|             | 910 Clearfield   | 99 .          | 62                | 62.6    | 37    | ~59.7′      | .374        | 3.77          |
|             | 350 Harper's Ferry   | 1             | 1 .               | 100.0   | -     |             |             | <u>~</u>      |
|             | 826 Pittsburgh   | <u> 11 - </u> | 9                 | 81.8    |       | <u>7-78</u> | <u>637</u>  | <u>4-55</u>   |
| <del></del> | TOTAL  | 281           | 199               | 70.8%   | 128   | 64.3%       | 456         | \$3.89        |

Cluster 09/29 Industrial Production (Female)

|                       |            |        |                 |            |          |               | ا يُحدد آئيد د |  |
|-----------------------|------------|--------|-----------------|------------|----------|---------------|----------------|--|
|                       | Cat I      | Placed | 7°<br>• Placed  | JTM        | Z<br>JTM | P/JTM<br>Rate | JTM<br>Wage    |  |
| 703 Charleston        | 43 -       | 28     | 65.1%           | · 11       | 39.3%    | .256          | \$2.89         |  |
| 716 Keystone          | ` ' 1      | 0.     | 0               | <b>-</b> ´ | <b>-</b> | -             | - **           |  |
| 743 Charleston        | . 6        | 6.     | 100.0           | ` 6 ·.     | 100.0    | 1.00          | 2.82           |  |
| 709 Albuquerque       | 18         | 13     | 72.2            | 6          | 46.2     | .334          | · &2.63        |  |
| 710 McKinny           | . 11       | 4      | 36.4            | 4          | 100.0    | .364          | 3.38           |  |
| 715 Guthrie           | 94         | 38     | 40.4            | 10         | 26.3.    | .106          | 2.89           |  |
| 706. Excelsiór Spring |            | 10 -   | 66.7            | <b>,</b> 9 | 90.0     | .600          | 5.02           |  |
| 702 LA                | . 1        | 1 .    | 100.0           | -          |          | -             | تناسيري سينس   |  |
| . ~717 Tongue Point   | . 7        | ´ 6    | 85 <b>.</b> 7 ( | 4          | 66.7     | 572           | 3.48           |  |
| 407 Phoenix           | .7         | 4      | 57, 1           | <b>3</b> · | 75.0     | .429          | 2.40           |  |
| 447 San Jose          | -1         | 1      | 100.0           | • 1        | 100.0    | 1.00          | 2.88           |  |
| 415 Portland          | <b>1</b> . | 1      | 100.0           | 1          | 100.0    | 1.00          | 2.47           |  |
| 934 Breckenridge      | 19 .       | 9      | 47.4            | 6 ~        | 66.7     | .316          | 2.60           |  |
| 914 Gary              | . 3        | · 1    | 33.3            | 1          | 100.0    | .333          | 2.30           |  |
| TOTAL                 | 227        | 122    | 53.7%           | 62         | 50.8%    | .273          | \$3.17         |  |

| Y                |            |             |             |        |           |               | •           |  |
|------------------|------------|-------------|-------------|--------|-----------|---------------|-------------|--|
|                  | Cat I      | Placed      | Placed      | JTM    | X<br>_JTM | P/JTM<br>Rate | JTM<br>Wage |  |
|                  | •          |             | * * *       | • ,    |           | •             |             |  |
| 710 McKinney     | <b>11</b>  | 4           | 36.4%       | `<br>3 | 75.0%     | .273          | \$3.75      |  |
| 415 Portland     | 1_         | 1           | 100.0       | -      | -         | _             |             |  |
| 934 Breckenridge | <u>3</u> . | <u> 0</u> . | <u>0-</u> ; | 7-     | =         |               |             |  |
| TOTAL            | 15         | <b>°</b> 5. | 33.3%       | 3      | 60.0%     | .200          | \$3.75      |  |

| OXC 2uee  | t Wetal Worker | (feware) |        | * *     |            |            | ₹     | •    |
|---|----------------|----------|--------|---------|------------|------------|-------|------|
|   |                | 4        |        | <b></b> | <b>.</b> # | <b>7</b> . | PAJTM | JTM  |
| The second se |                | Cat I    | Placed | Placed  | JTM        | JTM        | Rate  | Wage |
| 934 Brec  | kenridge       | β.       | 1      | 33.3%   | r'<br>     | -          |       |      |

|                 |       | Čat I | Placed | %<br>Placed | JTM | Z<br>JTM | P/JTM<br>Rate | JTM<br>Wage |
|-----------------|-------|-------|--------|-------------|-----|----------|---------------|-------------|
| 914 <b>Gary</b> | - ; - | 3     | ľ      | 33.3%       | ),  | 100%     | .333          | \$2.30      |

## 09E Electronics Assembler (Female)

|                       | Cat I       | Placed    | Placed      | JTM      | JTM:     | P/JTM<br>Rate | JTM<br>Wage |
|-----------------------|-------------|-----------|-------------|----------|----------|---------------|-------------|
|                       | weens       |           | •           | •        |          | •             | -           |
| 716 Keystone          | 1 .         | 0         | 0           |          |          | <del>-</del>  | <u>:</u>    |
| 709 Albuquerque       | 18 .        | 13        | 72.2%       | 3        | 23.1%-   | .167          | \$2.30      |
| 715 Guthrie           | 15          | 6 .       | 40.0        | -        | - :      | -             | - ,         |
| 706 Excelsior Springs | 1           | ` `0      | 0 .         | -        | `        | -             | <b>' -</b>  |
| 407 Phoenix           | <u>_7</u> · | 4         | <u>57.1</u> | <u>3</u> | 75.0-    | .429          | 2.40        |
|                       |             |           |             |          | <i>b</i> | -             |             |
| TOTAL                 | 42          | <b>23</b> | 54.8%       | 6        | 26.1%    | .143          | \$2.35      |

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09F Offset Printer (Female)

|                  |   | # Cat I        | #<br>Placed  | <del></del> | JTM JTM              | P/JTM<br><u>Räte</u> | * · · ·            |
|------------------|---|----------------|--------------|-------------|----------------------|----------------------|--------------------|
| 703 Charleston   |   | 43             | 28           | 65.1%       | 9 32.1%              | .209                 | \$2.93             |
| 743 Charleston   |   | . 6            | 6            | 100.0       | 5 83.3               | .833                 | 2.66               |
| 715 Guthrie      |   | 61             | 25           | 41.0        | 3 12.0               | .049                 | 2.66               |
| 702 LA           |   | . 1 .          | 1            | 100.0       | <b></b>              | -                    |                    |
| 717 Tongue Point | • | ., <b>3</b> ^. | <b>.</b> .3  | 100.0       | 2 66.7               | .667                 | <sup>2</sup> .95 、 |
| 954 Breckenridge | ì | <u>13</u>      | · <u>8</u> . | 61.5        | <u>4</u> <u>50.0</u> | .308                 | 2.42               |
| TOTAL            | ٠ | 127            | ;71          | 55.9% 2     | 4 33.8%              | .189                 | .\$2.76            |

09X Other (Female)

|  | Cat I | Placed       | Placed                         | JTM               | JTM.                  | P/JTM<br>Rate        | JTM<br>Wage                    |
|--|-------|--------------|--------------------------------|-------------------|-----------------------|----------------------|--------------------------------|
| 715 Guthrie<br>706 Excellior Springs<br>717 Tongue Point<br>447 San Vose | 18    | 7<br>10<br>3 | 38.9%<br>71.4<br>75.0<br>100.0 | 3<br>9<br>2<br>1. | 42.9%<br>90.0<br>66.7 | .167<br>.643<br>.500 | \$3.31<br>5.02<br>4.02<br>2.88 |
| TOTAL  | -37   | ži           | 56.8                           | 15                | 71.4%                 | 405                  | \$4.40                         |

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|   | Cat<br>I      | #<br>Placed | %<br>Placed           | #.<br>JTM. | %<br>JTM      | P/ĴTM:<br>Rate | ĴTM<br>Wage    |
|---|---------------|-------------|-----------------------|------------|---------------|----------------|----------------|
| 10 A Truck Driver<br>Anaconda (M)<br>Fort Simcoe (M)<br>Kicking Horse (M) | 9<br>- 9<br>5 | 6 . 5       | 66.7%<br>55.6<br>60.0 | 2          | 33.3%<br>20.0 | .222           | \$3.15<br>7.73 |
| TOTAL   | 23            | 14          | 60.9%                 | 3-         | 21.4%         | .130           | \$4:67         |
| 108 Warehouseman<br>McKinney (F)<br>Gary (M)                              | 29<br>21      | 17<br>13    | 58.6%<br>61.9         | 10<br>9    | 58.8%<br>69.2 | .345<br>.428   | \$2.69<br>3.42 |
| TOTAL   | 50            | <b>3</b> 0  | 61.9%                 | 19         | 63.3%         | .380           | \$3.04         |
| 10C Forklift Operator<br>Keystone (M)<br>Gary (M)                         | 1             | 1<br>16·    | 2 100.0%<br>100.0     | 4          | -25.0%        | .250           | \$2.93         |
| TOTAL   | .17 🐁         | 17          | 100.0%                | 4          | 25.0%         | .235           | \$2.93         |

## Cluster 17 Health Occupations (Male)

|                     | Cat I      | Placed               | Placed     | JTM:         | 3<br>JTM        | P/JTM<br>Rate  | JTM<br>Wage                              |
|---------------------|------------|----------------------|------------|--------------|-----------------|----------------|--|
| 707 Poland Sprg.    | <b>Î</b>   | 1                    | 100%       | 1            | 100%            | 1.00           | 3.10                                     |
| 711 NJ              | 5          | *4                   | 808        | 4:.          | 100%            | .800           | 4.40                                     |
| 705 Huntington      | 1          | 0                    | Ŏ.         | -            | -               | , <del>-</del> |  |
| 746 Charleston-     | 2          | 2                    | 1008       | . <b>2</b> . | 100%            | 1.00           | 2.67                                     |
| 770 Reystone        | 3.         | 1                    | 33.38      | 1            | 100%            | . 333<br>3     | 2:40                                     |
| 737 Cleveland       | 4          | 4:                   | , 100%     | <b>3</b> :,  | 75%             | .750           | 2-31                                     |
| 754 Albuquerque     | . 2        | <b>.</b> 0.          | <b>O</b> . |              | <u> </u>        | <b>—</b>       | 2000 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 750 Excelsion Sprg. | 10-        | <u>؞</u> ؙ۪؞ۦؙۛۏۣ؞ۦ؞ | 908        | <b>-3</b> :  | 33.3%           | <u>.</u> 300 . | 2-64                                     |
| 740 L.A.            | 1          | <b>1</b>             | 1008       | <b>1</b>     | 100%            | 1.00           | 2:50                                     |
| 776 Tongue Pt.      | . 2        | 0                    | ·Ò         | _            | , <del></del> ' |                |  |
| 852 Atlanta         | 2          | 2                    | 100%       | 1            | 50%             | .500           | 2.20                                     |
| 854 Atlanta         | . 2        | 1                    | 50%        | 1            | 100%            | <b>.</b> 500   | 3.13                                     |
| 431 Détroit         | . 7        | 4                    | 57.1%      | 1            | 25%             | .143           | 2.50                                     |
| 811 El Paso         | 8          | · . 4                | 50%        | . 1          | 25%             | .125           | 2.30                                     |
| 857 Tulsa           | 7          | 4                    | 57.18      | 4            | 100%            | .571           | 2.59                                     |
| 859 Tulsa           | 9          | 5                    | 55.6%      | 5            | 100%            | . 556          | 3.00                                     |
| 401 Phoenix         | · 3        | 1.                   | 33.3%      | -            |                 |                | , , , , , , , , , , , , , , , , , , ,    |
| 403 Phoenix         | Ź.         | i                    | 50%        | 1            | 100%            | .500_          | 2.63                                     |
| 442 San Jose        | 6          | , 5                  | 83.3%      | 4            | 808             | .667           | 2.92                                     |
| 446 San Jose        | 5          | . 4                  | 80%        | 4            | 100%            | .800           | 2.56                                     |
| 806 Hawaii          | , <b>1</b> | 0 .                  | 0          | •            | `               | · <del>-</del> |  |
| 411 Portland        | , 4        | 2                    | 50%        | 2            | 100%            | <b>.</b> 500 . | 2.52                                     |
| 906 Breckenridge    | . 6        | 4                    | 66.7%      | 2,           | 50%             | .333           | 2.46                                     |
| 905 Atterburg       | 4.         | - 1                  | 25%        | 1            | 100%            | . 250          | 3.00                                     |
| 903 Gary            | · 6        | 3                    | 50%        | · 3          | 100%            | .500           | 2.51                                     |
| Total               | . 103      | <sup>6</sup> 3       | 61.2%      | 45           | 71.48           | .437           | 2.81                                     |

#### 11A Nurse Ab istant (Male)

|                     | Cat 1           | Placed     | Placed        | JTM:         | % P/JTI        |          |
|---------------------|-----------------|------------|---------------|--------------|----------------|----------|
| 707 Poland Spgs.    | 1               | 1          | 100%          | 1            | 100% 1.0       | 0 3.10   |
| 711 NJ              |                 | 0          | ; <b>(0</b> ) |              | -              |          |
| 705 Huntington      | 1.              | . Ö.       |               |              |                |          |
| 746 Charleston      | <b>2</b>        | 2          | 100%          | <b>2</b>     | 100% 1.0       | 0 2.67   |
| 770 Keystone        | 2               | 0          | 0             | <del></del>  |                |          |
| 737 Cleveland       | 2               | 2          | 100%          | 2,           | 100% 1.0       | 0 2.32   |
| 754 Albuquerque     | 2               | 0          | . 0           | ·            |                |          |
| 750 Excelsior Spgs. | 9               | 8          | 88.9%         | ' 1          | 12.5% .11      | 1 2.60   |
| 740 L.A.            | 1               | 1          | 100%          | ŀ.           | 100% 1.0       | 0 2.50   |
| 776 Tongue Pt.      | 2               | • 0        | 0 _ `         | •—           |                |          |
| 854 Atlanta         | 1               | 0          | 0             | <del></del>  | بَيْنِينِ أَ   |          |
| 431 Decroit         | 6               | 4 -        | 66.7%         | <del>_</del> | <del>( -</del> |          |
| 811 El Paso         | 8               | 4.         | 50%           | . 1          | 25% .125       | 2.30     |
| 857 Tulsa           | <sup>*</sup> 5  | 2          | 40%           | .2           | 100% .400      | . 2.25   |
| 859 Tulsa           | 8               | 5          | 62.5%         | 5            | 100% .625      | 3.00     |
| 401 Phoenix         | <b>.3</b>       | 1          | 33.3%         | ,            | <del></del>    |          |
| 403 Phoenix         | 2               | 1          | 50%           | 1 ·          | 100% .500      | 2.63     |
| 442 San Jose        | 1               | i          | 100%          | 1            | 100% 1.00      |          |
| . 446 San Jose      | 1               | 1          | 100%          |              | 100% 1.00      | -4       |
| 411 Portland        | -4              | . <b>2</b> | 50%           | 2.           | 100150         | 02.52    |
| 906 Breckenridge    | 6               | 4 %        | 66.78         | 2            | 50% .33        | 3 . 2.46 |
| 905 Atterburg       | . ′. 4          | 1          | 25%           | 1 '          | 100% .25       | 0 3.00   |
| 903 Gary            | . 6             | 3          | 50%           | ` 3          | 100% .50       | 0 2.51   |
| Total               | <b>.</b> 78 · · | 43         | 55.1%         | . 26         | 60.5% .3       | 33 2.62  |



# 11B Dental Assistant (Male)

|                | Cat. I | Placed | Placed JTM | \$ P/JT   |      |
|----------------|--------|--------|------------|-----------|------|
| 7.70 Keys tone | Ĺ      | 1      | 1003 1     | 100% 1.00 | 2.40 |
| 806 Hawaii     | 1      | 0.     | 0.         |           |      |
| Total          | 2      |        | 50%        | 100% .500 | 2.40 |

| 11C Lic |  |  |
|---------|--|--|
|         |  |  |
|         |  |  |
|         |  |  |

|             |     | _Cat I                                | Placed | Placed                           | JTM        | JTM  | P/JTM _<br>Rate | JTM Wage   |
|-------------|-----|---------------------------------------|--------|----------------------------------|------------|------|-----------------|------------|
| 711 NJ      | ,   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4      | S DECEMBER OF MARK IN SECURE AND |            |      | 1.00            | ニー たいにもかべき |
| 854 Atlanta | 1 - |                                       | 1      | 100%                             | •          |      |                 |            |
| Total       | Č.  | 5                                     | 5      | 100%                             | · <b>5</b> | 100% | 1.00            | 4.15       |

## llD Vet. Asst. (Male)

|                                       | Căt. Î     | Placed | Placed; | JTM |      | P/JTM<br>Rate | JTM           |
|---------------------------------------|------------|--------|---------|-----|------|---------------|---------------|
| 442 San Jose                          | <b>1</b>   | 1      | 100%    | : 1 | 100% |               | 3,00          |
| A A A A A A A A A A A A A A A A A A A | Sum unio m |        | (, * )  |     |      |               | ,, ,, ,, ,, , |

#### 11F EKG Technician (Male)

|              | Cat I P | Laced Placed | JTM: JT | P/JTM<br>M Rate | JTM Wage   |
|--------------|---------|--------------|---------|-----------------|--|
| 431 Detroit  | 1:      | 0            |         |                 | And the second s |
| 442 San Jose | 2       | 2 100%       |         |                 | جُرِّهُ مِنْ الْمِ <del>نْسَانِ</del> .<br>وي  |
| Total        | 3       | 2 66.7%      |         | Year- 195*      |  |

Ġ



111 Lab Asst. Med. & Tech. (Male)

|             | Cat_I | Placed_ | Placed JTM                                  | JTM:- | P/JTM. | JTM<br>Wage |
|-------------|-------|---------|---|-------|--------|-------------|
|             | _     | AND A   | Arra San San San San San San San San San Sa | 7.7   | * ** * |             |
| 852 Atlanta |       | 2       | 100%1                                       | 50%   | •500 · | 2.20        |

### 11K Psychiatric Aide (Male)

|                     |       | Placed |        | <b></b> . <b>‡</b> . | -, <b>%</b> - | P/JTM | j jim |
|---------------------|-------|--------|--------|----------------------|---------------|-------|-------|
|                     | Cat I | Placed | Placed | JTM                  | JTM           | Rate  | Wage. |
| 750 Excelsior Spas. | 1     | 1      | 100%   | 1                    | 100%          | 1.00  | 2.88  |

11L X-Ray Tech. Asst.

|              | ٠, | Cat I | Placed                | Placed: | ‡<br>JTM    | JTM | P/JTM<br>Rate | JTM Wage            |
|--------------|----|-------|-----------------------|---------|-------------|-----|---------------|---------------------|
|              | 1  |       | and the second second |         |             |     | •             | ,                   |
| 57 Cleve and | ·  | 1     | Ţ                     |         | <del></del> |     |               | <del>2002</del> , * |

### 11X Other (Male)

|               | Cat I | Placed | Placed      | JTM | JTM Rate   | JTM<br>Wage |
|---------------|-------|--------|-------------|-----|------------|-------------|
| 737 Cleveland | _1    | î.     | 100%        | -   | <u> </u>   |             |
| -857-Tulsa    | 2     | 2      | 100%        | 1   | 50% .500   | 3.24        |
| 859 Tulsa     | ·1 -  | o      | <u></u>     | · — | ·          |             |
| 442 San Jose  | 2     | 1      | 50%         | , 1 | 100% .500  | 3.00        |
| 446 San Jose  | 4     | 3-     | 75%         | 3   | 100% .750  | `2.58       |
| Total         | 10    | . 7    | 70 <b>%</b> | . 5 | 71.4% .500 | 2.80        |

### Cluster 11 Health Occupations (Female)

|                    | t Cat I      | Placed     | Placed     | #<br>JTM               | % P/JTM<br>JTM Rate | JTM<br>Wage |
|--------------------|--------------|------------|------------|------------------------|---------------------|-------------|
| 703 Charleston     | 58           | 40         | 69%        | 3.2                    | 77.5% 1534          | 2.60        |
| 716 Keystone       | 97 -         | - 51       | 52.6%      | 29                     |                     | 2.78        |
| 770 Blueridge      | 26 -         | 10         | 38.5%      | 7                      | 70% 269             | 2.20        |
| 743 Charleston     | 3 , ·        | 3          | 100,8      | 2                      | 66.7% .667          | 2.57        |
| 701 Cleveland      | 142          | .68        | 47.98      | , 42                   | 61.8% .296          | 2.67        |
| 738 Cleveland      | , 3          | 3          | .100%      | 3                      | 100% 1.00           | 2.46        |
| 709 Albuquerque    | 59           | 19 .       | 32.2%      | 11                     | 57.9% .186_         | 2.34        |
| /710 McKinney      | · 90         | `_'49`     | 54.4%      | 39                     | 79.6% 433           | 2.34        |
| 715 Guthrie        | 137          | 78         | 56.9%      | <b>51</b> <sup>-</sup> | 65.4% .372          | 2.48        |
| 756 Albuquerque    | ` [1 '       | 0          | 0          | -                      | -                   | -           |
| 706 Excelsior Jpgs | <u>1</u> -28 | 86.        | 67.2%      | 57                     | 66.3% .445          | 2.53        |
| 702 L.A.           | 38           | 25         | 65.8%      | 22                     | 888579              | 3.07        |
| 742 L.A.           | 28           | 27         | 96.4%      | 23                     | 85.2% .822          | 3.30        |
| 717 Tongue Pt.     | ,62          | 40         | 64.5%      | 35 <sup>.</sup>        | 87.5%565            | 3.03        |
| 851 Atlanta        | 80           | 51 .       | 63.8%      | 30                     | 58.8% .375          | 2.42        |
| 853 Atlanta        | . 44         | 26 `       | 59.1%      | <b>12</b>              | 46.2% .273          | -2.31       |
| 437 Detroit        | 20           | 1,0        | 50%        | 9                      | .90% .450           | 2.47        |
| 845 Cinacinnati    | 1            | 0          | <b>o</b>   | -                      |                     | · _ ′       |
| 849 El Paso        | 18           | 7 🏂        | 38.9%      | 6                      | 85.74 333           | 2.41        |
| 405 Phoenix        | 17           | . 10       | 58.88      | 6                      | 60% .353            | 2.36        |
| 407 Phoenix        | 14           | <b>7</b> 7 | <b>50%</b> | . 5                    | 71.4% .357          | 2.74        |
| 807 Hawaii         | 1            | 1          | 100%       | _                      |                     | <b>-</b>    |
| 415 Portland       | 6°.          | 4          | 66.78      | ٠ 4                    | 100% .667           | 2.60        |
| 417 Portland       | 1            | 1          | 100%       | <b>\</b> 1             | 100% 1.00           | 2.50        |
| 934 Breckenridge   | 67           | 35         | 52.2%      | 22                     | 62.9% .329          | 2.38        |
| <b>©</b>           |              | *          | -          |                        | ,                   | • •         |

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Cluster 11 Health Occupations (Female) (continued)

|              | Cat I | Placed | Placed | JTM | JTM    | P/JTM<br>Rate | 1  | JTM<br>Wage' |
|--------------|-------|--------|--------|-----|--------|---------------|----|--------------|
| 926 Atterbur | . 9   | 3      | 33.3%  | 2   | `66.7% | .222          | •  | 2.55         |
| 914 Gary     | ,9    | 4      | 44.4%  | 4   | 100%   | .444          | ۶. | 2.52         |
| Total        | 1159- | -658   | 56.8%  | 453 | 68.8%  | .391          | 1  | 2.57         |

# 11A Nurse Assistant (Female)

|                     | *#Cat I           | #Placed  | %Placed | #JTM         | <b>%JTM</b> | P/JTM<br>Rate | JTM<br>Wage    |
|---------------------|-------------------|----------|---------|--------------|-------------|---------------|----------------|
| 703 Charleston      | 57:               | 39       | 68.48   | 30           | 76.9%       |               | 2,62           |
| 716 Keystone        | 71                | 37       | 52.68   | 22           | 59.5%       | 313           | 2.62           |
| 720 Blue Ridge      | 11                | 6        | 54.5%   | 4            | 66.78       | .364          | 2.30           |
| 743 Charleston      | 3                 | 3        | 100%    | 2            | 61.78       | .667          | 2.57           |
| 701 Cleveland       | 109               | 52       | 47.78   | 32           | 61.5%       | .293          | 2.59           |
| 738 Cleveland       | 3                 | 3.7      | 100%    | 3            | 100%        | 1.00          | 2.46           |
| 709 Albuquerque     | 53                | 16       | 30.2%   | 9            | 56.3%       | .170          | 2.32           |
| 710 McKinney        | 90                | 49       | 54.4%   | 37 -         | 75.5%       | .411          | 2.43           |
| 715 Guthrie         | 122               | 74       | 60.78 5 | 49           | 66.28       | .402          | 2.49           |
| 756 Albüğüergue     |                   | 0        | . 0     | . 🗕          | <b>-</b> .  | -             | ,              |
| 706 Excelsior Spgs. | 100               | 65       | 65.0%   | 39           | 60%         | .390          | . <b>2.</b> 37 |
| 702 LA              | 13                | 5.       | 38.5%   | 4            | 80%         | .308          | 2.66           |
| 742 LA              | <b>12</b>         | 12       | 150%    | 9            | . 75%       | .750          | 3.18           |
| 717 Tongue Pt.      | 32                | 21 "     | 65.6%   | 19           | 90.5%       | .594          | 2.68           |
| 851 Atlanta         | 62                | 39.      | 62.9%   | 22.          | 56.4%       | .355          | 2.43           |
| 853 Atlanta         | · <sub>/</sub> 40 | 25       | 62.5%   | 10           | 40%         | .250.         | 2.27           |
| 437 Detroit         | 19 <sup>.</sup>   | 10       | 52.6%   | , . <b>9</b> | 90%         | .474          | 2.47           |
| 845 Cincinnati      | 1                 | ò , ,,   | 0       | -            | •           | • ,           |                |
| 849 El Paso         | 18 .              | <b>7</b> | 38.9%   | 6.           | 85.7%       | .333          | 2.41           |
| 405 Phoenix         | 17                | 10       | 58.8%   | <b>/</b> 5   | 50%         | .294          | 2.42           |
| 407 Phoenix         | 13                | 6        | 46.2%   | 4            | 66.7%       | .308`         | 2.49           |

#### 11A Nurse Assistant (Female)

|                   |        |             |         | <b>∵</b> • • • • • • • • • • • • • • • • • • • |   |            |             |
|-------------------|--------|-------------|---------|--|---|------------|-------------|
|                   | #Cat I | #Placed     | %Placed | #JTM   | &JTM                                    | P/JTM Rate | JTM<br>Wage |
| 807 Hawaii        | .1     | 1           | 100%    | <b>.</b>                                       | • · · · · · · · · · · · · · · · · · · · | nace,      | nage.       |
| 415 Portland      | .6     | 4           | 66.7%   | 4  | 100%                                    | .667       | 2.60        |
| 417 Portland      | 1      | 1           | 100%    | 1  | 100%                                    | .100       | 2.50        |
| 934 Breckingridge | 67     | '3 <b>5</b> | 52.2%   | 22   | 62.9%                                   | .32,9      | 2.38        |
| -926 Atterbury    | 9 -    | <b>.</b>    | 33.3%   | <b>2</b> :                                     | 66.7%                                   | .222       | 2.55        |
| 914 Gary          | 9      | 4           | 44.4%   | 4  | 100%                                    | 444        | 2.52        |
| TOTAL             | 920    | 527         | 5X:38   | 348  | 66.0%                                   | .378       | 2.50        |



#### 11B Dental Assistant (Female)

|                    | #Cat I | #Placed    | \$Placed | #JTM  | <b>łj</b> tm | P/JTM<br>Rate                         | JTM:<br>Wage      |
|--------------------|--------|------------|----------|-------|--------------|---------------------------------------|-------------------|
|                    |        |            |          |       |              | i i i i i i i i i i i i i i i i i i i | , mayor.          |
| 716 Keystone       | 1.     | 1          | 100%     | 1     | 100%         | 1.00                                  | 2.50              |
| 701 Cleveland      | 3      | 2          | 66.7%    | • · · | <u>.</u>     | · · · · · · · · · · · · · · · · · · · |                   |
| 709 Albuquerque    | Š      | 3          | 608      | .2 ., | 66.7%        | .400                                  | 2.36              |
| 706 Excelsion Spg. | 5      | 4          | 80%      | 2     | 50%          | .400                                  | 3.18              |
| 702 LA             | 2      | 1          | 80\$     | 1 .   | 100%         | .500                                  | 3.00              |
| 742 LA             | 6      | 6          | 100%     | 6     | 100%         | 1.00                                  | 2.89              |
| 717 Tongue Pt      | 22     | 14.        | 63.6%    | 11    | 78.6%        | 500                                   | 3.66              |
| TOTAL              | 44     | 3 <b>1</b> | 705%     | 23    | 74.2%        | .523                                  | 3.23 <sup>(</sup> |

#### 11C Lic. Prac. Nurse (Female)

|                     | CatI | Placed | Placed * | JIM. | JIM          | P/JTM<br>Rate | JIM<br>Wage |
|---------------------|------|--------|----------|------|--------------|---------------|-------------|
| 720 Blue Ridge      | _ 2  | 1      | 50%      | 1    | 100%         | • 500°        | 1.75        |
| 706 Excelsior Spgs. | 4    | 4      | 100%     | 4    | 100%         | 1.00          | 3.69        |
| 702 IA              | 9    | 8      | 88-9%    | . 3  | 37.5%        | 333           | 3.68        |
| 742 LA              | · 9  | . 8    | 88.9%    | 2    | 2 <b>5</b> % | .222          | 3.87        |
| 407 Phoenix         | 1    | . 1    | 100%     | 1    | 100%         | 1.00          | 3.75        |
| Total               | 25   | . 22   | 888      | 11   | 50*          | .440          | 3.55        |

# llD Vet. Asst. (Female)

|               | #<br>Cất Ĩ | Placed     | Placed | JIM                                   | JIM   | P/JTM<br>Rate | JTM<br>Wage |   |
|---------------|------------|------------|--------|---------------------------------------|-------|---------------|-------------|---|
| 701 Cleveland | Î.         | 0.         | 0      | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | -     |               | -           |   |
| 702 LA        | .5         | <b>. 2</b> | 40%    |                                       | ₹.    | <br>" `       |             |   |
| 742 LA        | . <b>1</b> | 1          | 100%   | 1 .                                   | 100%  | 1.00          | 2.50        | - |
| Total         | 7:         | 3          | 42.9%  | 1                                     | 33.3% | .143          | 2.50        |   |

#### -11E Physical Therapy (Female)

|                   | #<br>Cat: 1 | #<br>Placed | Placed         | JIM.    | JTM      | P/JIM<br>Rate | JTM<br>Wage |
|-------------------|-------------|-------------|----------------|---------|----------|---------------|-------------|
| 716 Keystone      | 4           | <b>2</b>    | 50%            | 1       | √<br>50% | .250          | 2.77        |
| 701 Cleveland     | 3           | i., i.,     | <b>33.3</b> %. | •••     |          | 400           | •••·        |
| 706 Egelsior Spgs | 5           | · 2         | 40%            |         | -        | _             | <u> </u>    |
| Total             | 12          | `<br>5      | 41.7%          | ;;<br>1 | 20%      | .083          | 2.77        |
| <b>3</b>          |             |             | • 'n- '        | •       |          | · · · -       | · ``wa      |

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#### 11F E.G. Technician (Female)

|                    | Cat I      | Placed | Placed | #<br>MIU.        | JIM_  | P/JTM<br>Rate | JTM<br>Wage | <u>.</u> |
|--------------------|------------|--------|--------|------------------|-------|---------------|-------------|----------|
| 716 keystone       | 4          | 4      | 100%   | 4                | 100%  | 1.00          | 3.90        |          |
| 720 Blue Ridge     | 2          | 1      | 50%    | ÷ .              |       | <u> </u>      | -           |          |
| 701 Cleveland      | . <u>5</u> | 2.     | 40%    | _                | -     | مار           | ,           | •        |
| 706 Excelsior Spgs | . 4        | 4.     | 100%   | - 3 <sub>-</sub> | 75%   | <u>.</u> 750  | 2.56        |          |
| Total              | · 15 —     | 11     | 73.3%  | 7                | 63.6% | .467          | 3.33        |          |



### llH Invalation Therapist (Female)

|               | #<br>Cat I | #<br>Placed | Placed° | #<br>TIM | ş<br>J <u>im</u> | P/JTM<br>Rate | JIM<br>Wage |
|---------------|------------|-------------|---------|----------|------------------|---------------|-------------|
|               |            |             |         |          | ه محب            | •             | ,5.         |
| 701 Cleveland | 5          | 3 .         | .60%    | 2        | 66.7%            | .400          | 3.80        |



11 T Lab. Asst. Med. and Tech. (Female)

|  | ~ *     | ~ ~ ~~·     |             | , - | 1 *     |                | •           |
|--|---------|-------------|-------------|-----|---------|----------------|-------------|
| A Committee of the Comm | Cat I   | #<br>Placed | Placed      | JIM | .JIM    | P/JIM<br>Rate  | JIM<br>Wage |
|  |         | ••          |             |     |         |                | • • •       |
| 703 Charleston   | . 1     | Ĵ           | 100%        | ,   | -       | , <del>-</del> | _           |
| 701 Cleveland  | 4 .     | . 3         | 75%         | ì.  | 33.3%   | .250           | 3.70        |
| 706 Excelsior Spgs   | 2       | ì ·         | 50%         | `_  | <b></b> | .=             |             |
| 702_LA   | <u></u> |             | <del></del> |     | 100%    | 1.00           | 3.37        |
| Total  | 9       | 7           | 77.8%       | 3   | 42.9%   | .333           | 3.48        |

#### . 11K Psychiatric Aide (Female) -

|                    | ∦<br>-Cat I- | #-<br>Placed | g<br>Placed      | #<br>JIM | g<br>JTM            | P/JTM<br>Rate | JTM<br>Wage      |
|--------------------|--------------|--------------|------------------|----------|---------------------|---------------|------------------|
| 716 Keystone       | 3.           | 3            | 100%             | 1        | 33.3%               | ,333          | 2.30             |
| 706 Excelsior Spgs | 4            | 4            | 100%             | 4        | 100%                | 1.00          | ź.73             |
| 702 IA             | 2            | 2            | 1003             | 1        | 50%                 | .500          | 3.50             |
| Total              |              | 9            | <del>100</del> % | -6       | 6 <del>6.7%</del> - | 667           | <del>-2.79</del> |

# 111 X-Ray Tech. Asst. (Female)

| And the second s | Cat I              | Placed | Placed | JIM  | \$<br>JIM    | P/JIM<br>Rate | JIM<br>Wage  |
|--|--------------------|--------|--------|--|--------------|---------------|--------------|
|  | which we will have |        | *      |  |              | •             |              |
| 716 Keystone   | 3                  | 3      | 100%   | -  | ·            | · <u>-</u>    | -            |
| 701 Cleveland  | 3                  | 1      | 33,38  | * * <u>*                                  </u> | <u>:</u>     | -             | <del>.</del> |
| Total  | . 6                | 4      | 66.78  | <b>-</b> ,                                     | <del>-</del> | <b>'-</b> .   | - ,          |

#### 11M Hosp. Diet Aide (Female)

|                | Cat I        | Placed | Placed | JTM      | JIM_       | P/JIM<br>Rate | JIM:<br>Wage                           |
|----------------|--------------|--------|--------|----------|------------|---------------|--|
|                | 7.           | ,      |        |          | •          | ;             | ·                                      |
| 716 Keystone   | <b>7</b> % · | 2      | 14.3%  |          | , -        | a.<br>        | ************************************** |
| 720 Blue Ridge | . 11         | 3      | 18.2%  | -        | <b>.</b> - | -             | , <b>-</b> ,                           |
| 701 Cleveland  | 6            | 3      | 50%    | <b>-</b> | <u>-</u>   |               | •                                      |
| 715 Guthrie    | 13           | ·- 3   | 23.1%  | 1        | . 33.3%    | .077          | 2.30                                   |
| Total          | . 37         | 9      | 24.3%  | 1        | 11.1%      | .027          | 2.30                                   |

#### 11X Other Female

|                    | Cat I      | Placed     | Placed       | JIM  | JIM          | P/J.m.<br>Rate | JTM<br>Wage     |
|--------------------|------------|------------|--------------|------|--------------|----------------|-----------------|
|                    |            |            |              | • .  |              | _6             | •               |
| 716 Keystone       | :_f, 4     | · <b>0</b> |              | -    |              | • ·            | ,               |
| 701 Cleveland      | 3 .        | i          | 33:3%        | .1   | 100% _       | .333-          | 3 <b>.2</b> 7 · |
| 709 Albuquerque    | 1          | ó          | . <b>0</b> . | **** |              | <b>-</b> · * ′ | -               |
| 715 Guthrie        | . <u>1</u> | 0 •        | 0            | -    | <del>-</del> | <b>-</b> -     | ,               |
| 706 Excelsion Spgs | 4          | 2          | 55%          | -    | - ,          | · • `          | <del>-</del> ·  |
| 702 IA             | <b>'</b> 5 | 5          | 100% ,       | ŝ    | 60%          | .600           | 2.46            |
| 717 Tongue Pt.     | · . 7      | 5          | 71.48        | 3    | 60%          | .429-          | ·2 <b>.</b> 99  |
| 851 Atlanta        | 12         | 9 .        | 7.5%         | 5    | 55.6%        | :417           | 2.52            |
| 853 Atlanta        | 3          | . "i       | 33.3%        | .1   | 100%         | .333 -         | 2.50            |
| Total              | 40         | 23         | 57.5         | 13   | 56.5%        | .325           | 2.67            |

AN ASSESSMENT OF CENTER
EDUCATIONAL PROGRAMS IN

JOB CORPS

Barry Argento
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Office of Youth Programs
Report Number 12

The Job Corps is a primary alternate education mechanism. It serves youth who have mostly failed in or been failed by the education system. Seven of eight enrollees have not completed high school. The medium achievement level is below the sixth grade level.

Job Corps provides comprehensive education opportunities. The basic education program consists of a standard set of materials graded for skill level, with a unit system of instruction and progression. There is a low student/teacher ratio to allow individualized attention. When students progress to roughly the 8th grade achievement level, they are usually placed in the General Equivalency Degree program. This, too, is a standardized package of self-placed units. Finally, a new off-center Advanced Career Training Program in Colleges and Post Secondary Vocational Institutes has been instituted to provide the full range of Job Corps services and support for corpsmembers who continue their education in colleges and vocational schools.

Educational gains testing was abandoned in 1974 and in the 1970's until the last two years little attention was paid to the quality of educational programs. There is now a concerted effort to upgrade materials, revise curricula and experiment with new approaches. Revised GED and basic reading programs are being introduced. An Educational Improvement Effort is underway which will carefully experiment with alternative educational approaches to determine relative cost and effectiveness in the Job Corps setting.

This study of education in Job Corps is based on site visits to a large number of centers, interviews with teachers and corpsmembers. There is also a survey of the alternative for education in Job Corps. The purpose of this assessment was to determine the state of education in centers as well as to lay the groundwork for the Educational Improvement Effort: Some of the findings are significant:

o Both teachers and students give quite positive ratings to center educational programs. The materials and approaches are clearly effective for this group and in this setting.

- o Both students and teachers perceive the need for and respond to supplementary materials. In an individualized system, supplements to a basic program are clearly needed to meet differing interests and ability. Most centers have, indeed, supplemented the core Job Corps programs.
- o Students and teachers perceive the need for and respond to low student/teacher ratios. In most centers, the ratio is less than 15/1. Most also use student assistants.
- o Where teachers are positive, students tend to be positive and vice versa. It is somewhat disturbing that years of teaching are inversely correlated with attitude. Teachers may "burn out" or perhaps the salary gradients are not adequate to maintain the enthusiasm of teachers with greater security.

Robert Taggart Administrator Office of Youth Programs



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#### EDUCATIONAL IMPROVEMENT EFFORT QUESTIONNAIRE REPORT

#### Barry Argenta Arlene Malech

#### I. INTRODUCTION

The Educational Improvement Effort (EIE) preliminary questionnaires were designed to provide baseline information to aid in the determination of the need for and the methods of improving the Job Corps Basic Education and GED programs. The data contained in this report were obtained from a sample of 39 Job Corps centers. Of these, 15 were Civilian Conservation Centers (CCCs) and 24 were Contract Centers. The breakdown of centers by region is as follows:

TABLE 1
Description of Sample

| Region                                | Contract | CCC | Total |
|---------------------------------------|----------|-----|-------|
| · · · · · · · · · · · · · · · · · · · | 5        | 0   | 5     |
| 4                                     | 4 .      | . 4 | 8     |
| 5                                     | 3        | . 1 | 4     |
| 6                                     | , 5      | 3   | 8     |
| 7 & 8-                                | 3 .      | 4   | 7     |
| . 9                                   | 2        | . 0 | 2     |
| 10                                    | 2        | 3   | 5     |



This yielded 39 interviews with basic education directors or their designees, about 380 interviews with teachers, and approximately 800 interviews with corpsmembers. A complete listing of the sampled centers may be found in appendix A.

Specifically, the Basic Education Director Questionnaire yielded current data relating to such things as what ongoing recordkeeping practices are; what tests, if any, are routinely being used to measure educational gains; what is the success rate of the existing GED program; and what corporate-and/or center-developed materials are being used to supplement the basic program. The Teacher and Student Attitude Questionnaires were designed to provide information about some of the feelings of these two groups toward the existing Basic Education and GED programs.

In addition to the analyses run on the attitude questionnaires, supplemental correlations were computed using Job Corps management information in an effort to more fully describe the current status of the existing program in terms of such things as cost for materials, termination rates, and cost for educational personnel. These correlations provided the opportunity to perform analyses utilizing relevant portions of the attitude questionnaires rather than the score on the total instrument.

The content area of this report is divided into four main areas:
-section II contains the results of the Basic Education Director Questionnaires; section III contains the analysis of the Teacher Attitude
Questionnaires; section IV contains the analysis of the Student Attitude

#### II THE BASIC EDUCATION DIRECTOR QUESTIONNAIRE

The purpose of the Basic Education Director Questionnaire was informational. It was not designed to enable any detailed statistical analysis of the results. Its focus was to discern existing staffing patterns, recordkeeping procedures, testing mechanisms, and modifications to the Basic Education and GED programs. The rationale for this purpose was twofold: (1) to ascertain the current status of the Job Corps education program, and (2) to aid in the determination of which centers to use for new model field testing and what types of models would be appropriate.

Because the items on the questionnaire were not structured to facilitate statistical analysis, results were merely tabulated: Percentages have been calculated on the basis of the total number of basic education directors responding to each item. Results are discussed in sections that correspond to the major divisions of the questionnaire.

#### A. Educational Matters

#### 1. Educational Gains

Most centers are using the entry testing programs provided by Job Corps (the longstanding MJS1, MJS2, and RJS1 tests) for initial assignments into educational programs. Of the centers surveyed, 92.5 percent are using the MJS1 and MJS2 tests for mathematics placement, and 93.5 percent administer the RJS1 test for reading

Questionnaires: an extion V contains recommendations for possible policy changes and for the EIE study based on the results of these questionnaires.

The researchers wish to express their gratitude to center staff and corpsmembers whose cooperation made this study possible. Without them, a research effort of this magnitude could not have been undertaken.

placement. Although the RJS and MJS tests are widely used, there are varying opinions concerning the effectiveness of these tests in determining educational competencies. A breakdown of this data may be found in table 2.

Perceived Effectiveness of the RJS and MJS Tests

| tiveness | RJS1 · | MJS1                          | MJS2  |
|----------|--------|-------------------------------|---|
| 1        | 14%    | 14%                           | 3%  |
| 2        | ;16%   | 8%                            | 3%  |
| 3        | 31%    | 24%                           | 17%   |
| . " . 4  | 27%    | 40%                           | 36%   |
| 5        | 11%    | 14%                           | 36%   |
|          | 1%     |                               | 5%  |
|          | 3 4    | 1 14% 2 16% 3 31% 4 27% 5 11% | 1     14%       2     16%       3     31%       4     27%       5     11%       14% |

A wide variety of individuals appear to be administering these tests.

Table 3 shows the percentage of centers indicating administration

personnel for the RJS and MJS tests.



TABLE 3

Administrative Personnel for Tests

|                        | Percent of Centers Reporting |                                       |  |  |
|------------------------|------------------------------|---------------------------------------|--|--|
| Administrator          | MJS1 and MJS2                | RJS1                                  |  |  |
| Teacher                | 33%                          | 313                                   |  |  |
| Counselor              | 7:                           | 3%                                    |  |  |
| Orientation Specialist | 20%                          | 17%                                   |  |  |
| Testing Specialist     | 113                          | 15% ,                                 |  |  |
| Other                  | 30%                          | <b>34</b> <sup>-</sup> ;              |  |  |
| ,                      |                              | · · · · · · · · · · · · · · · · · · · |  |  |

Data also indicate that there is no consistent time across centers when these tests are being administered. Eighty-two percent of the surveyed centers administer these tests during corpsmember orientation week, but the day varies. Literature in the field of measurement indicates that many factors may influence test results: among these are numerous conditions within the individual. It is possible that placement results may be influenced by newness of surroundings, homesickness, the test administrator, etc.

For these reasons, a fairly standard administration time for placement tests may be beneficial. While a procedure such as this could not guarantee consistency of corpsmember placement across centers, it may serve to minimize, at least, sume of these extraneous factors.

Educational gains are being measured in approximately 88 percent of the centers; however, a wide variety of instrumentation is being used for this purpose. Very few centers are using the MJS1 and MJS2 and/or the RJS1 to measure educational gains. Table 4 presents these percentages.

TABLE 4
Use of MJS1, MJS2, and RJS1 to Measure Educational Gains

| Use for Gain Measurement | ٠. | MJST and MJS2 | RJS1 |
|--------------------------|----|---------------|------|
| Yes                      |    | 14%           | 4%   |
| No                       | •  | 86%           | 96%  |
|                          |    |               |      |

A wide variety of gains-testing instrumentation is being used. The SAT, Woodcock, LAC, and Sullivan tests are being used for reading pre-tests; LAC and SAT are being used for reading post-tests. For the mathematics program, centers indicate that the Woodcock/Key Math, American Guild, SAT, Section D/Unit Tests, and MJS1 are being used. These results indicate that enough divergence of instrumentation is being used that little comparative gain score information from one center to another could be considered valid.

Maintenance and storage of the test data vary widely from teachers' files to computer storage, with approximately 50 percent of the centers indicating that teachers do maintain these records, at least initially. Of the centers reporting, 60 percent state that educational gains records are

only maintained while the corpsmember is on center, while 33 percent indicate that they maintain these records longer than 12 months after the corpsmember leaves. Again, these data demonstrate little consistency across centers.

#### 2. GED Program

The data on the GED program provided relevant information about the existing curriculum and its implementation. Because of the wide variation in the size of the surveyed centers, there is considerable diversity in the number of corpsmembers who enter the GED program on a per month basis. Seventy-two percent of the surveyed centers report 30 or fewer entering GED students per month. The remaining centers have anywhere from 30 to 100 corpsmembers entering the GED program on a per month basis. Although this diversity is quite large, it is consistent with researcher expectation.

TABLE 5\*
GED Data

| Region | Total<br>Job Corps<br>Enrollment | Corpsmembers<br>Eligible For<br>GED |         | Eligible Corps-<br>members Actually<br>Enrolled in GED |           | GED Enrollees<br>Completing<br>GED 4 |                |
|--------|----------------------------------|-------------------------------------|---------|--|-----------|--------------------------------------|----------------|
|        |                                  | Number                              | Percent | Number   | Percent   | Number                               | Percent        |
| · 3    | 6,894                            | 1,081                               | .16%    | <sup>-</sup> 695                                       | 64%       | 621                                  | 89%            |
| 4 .    | 18,471                           | 3,690                               | 20      | 2,125  | 58        | 785                                  | 37             |
| 5      | 6,039                            | 714                                 | . 12    | 635  | <b>89</b> | 344                                  | 54             |
| 6:     | 23,660                           | 4,157                               | 18      | 1,997  | 48        | 1,530                                | 77             |
| .7 & 8 | 14,960                           | 1 ,852                              | , 12    | 1,673  | 90        | 1,436                                | · 8 <u>.</u> 6 |
| ٠ 9    | 3,281                            | 823                                 | 25      | 562  | 68        | 472                                  | 84             |
| 10     | 8,127                            | 1,825                               | 22%     | 1,572  | 86%       | 814                                  | 52%            |

<sup>\*</sup> Based on Job Corps National Office Data

Y All percentages are rounded.

Basic education directors were asked to distinguish between students who enter the GED program when they arrive on center and those who come through the Basic Education program. Table 6 contains that data.

• TABLE 6
How Students Enter the GED Program

| Percentage of Total | Percentage of Centers Reporting  |  |  |
|---------------------|----------------------------------|--|--|
| GED Enrollment      | Students Enter GED<br>on Arrival | Students Enter<br>GED through<br>Basic Education |  |
| Below 10%           | 33%_                             | 3%   |  |
| 10-20%              | 15%                              | 0%   |  |
| 20-30%              | 15%                              | <sup>1</sup> 8%                                  |  |
| 30-40%              | 15%                              | 3%   |  |
| 40-50%              | 3%                               | . 3%   |  |
| 50-60%              | 8%                               | 8%   |  |
| 60-70%              | 0%                               | 8%   |  |
| 70-80%              | 5%                               | 11%  |  |
| 80-90%              | 3%                               | 14%  |  |
| 90-100%             | 3%                               | 42%  |  |

Eighty-seven percent of the centers surveyed report that students are placed in the GED program on the basis of test scores, but data also indicate that there is little, if any, consistency in the utilized placement tests.

The SAT advanced test is used by 55 percent of the centers reporting; 31 percent use MJS1 and RJS1, while 14 percent use other instruments. This suggests that comparable test criteria for placement into GED do not exist across centers. A further implication is that a single standard of test performance is not used for GED placement.

Approximately 29 percent of the reporting centers indicate that students can be placed into the GED program on the basis of criteria other than test scores or counselor recommendation. Placement into GED is further confounded by the fact that students can, in at least one center, be placed into the GED on the basis of only the counselor's recommendation. This further illustrates the lack of consistency of placement procedures across centers.

The percentage of students who have successfully completed the GED program and test during the last three months and the percentage meeting state certification requirements also vary dramatically across centers. There is no discernible causation pattern from this survey. The data are presented in table 7.

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TABLE 7

### Percentages of Students Who Pass the GES Test and Meet State Certification Requirements

| Percentage of St | cudents                               | _          | . Per | rcent              | tagé-of | Centers Reporting                  |
|------------------|---------------------------------------|------------|-------|--------------------|---------|------------------------------------|
|                  | •                                     | ÷ (•       | Pass  | åÉD                | Test    | Meet Certification<br>Requirements |
| ⇒ Below 10%      |                                       | 1          |       | <sup>3</sup> .65   |         | 0%                                 |
| ¹ 10-20%         | • .                                   | • •        | . • : | 113                |         | 1                                  |
| 20-30%           | •                                     | , <b>,</b> | \$    | 17%                | •       | 11%                                |
| 30-40%           | 4.50                                  |            |       | 6°;                | •       | 8%                                 |
| 40-50%           | . 0                                   | * -        | ••••  | 6 %                | -       | .5%                                |
| 50-60%           |                                       |            |       | 143                |         | 5%                                 |
| 60-70%           |                                       |            |       | 9%                 | ۴,      | 5%                                 |
| 70-80%           | •                                     | •4         | -     | ΄ 6 <sup>α</sup> , | ;       | 13%                                |
| 80-90%           |                                       |            | ,     | 9 <sup>°</sup> %   |         | 11%                                |
| 90-100%          | · · · · · · · · · · · · · · · · · · · | •          |       | 17%                |         | 34%                                |
|                  |                                       | . • •      |       | J                  |         |                                    |

Approximately 76 percent of the centers report that it takes three to six months for a student to complete the GED program. Only 11 percent of the centers report that they administer the GED test on center. A decision as to when the student is ready to take the GED test is made by the GED teacher in approximately 76 percent of the centers. In the remaining centers, a decision is made by the corpsmember, the counselor, the basic education supervisor, or another individual. For the 89 percent of the centers which send students to other locations to take the GED test,



there is no single test location type. Some use the facilities of local high schools or colleges, while others use learning centers, county education offices, or career centers. There is no way to determine how comparable these testing facilities are or whether differential conditions affect the test result.

#### 3. Innovative Materials in the Instructional Program

Data indicate that the majority of the surveyed centers are using either center- or corporate-developed materials to supplement the standard educational program required by Job Corps national policy. In the area of basic education, 84 percent of the centers report that they are using such materials, while 67 percent say that they are using them for the GED program. This fact results in an inference that the testing of new models should probably be done on an intracenter rather than an intercenter basis because the education program may vary widely from center to center. Approximately 80 percent of the reporting centers state that their supplemental materials are vocationally oriented; 33 percent of the sampled centers state that they have made changes to the prescribed basic education curriculum which they believe are making it more effective and efficient.

#### B. Staffing Patterns

Staffing patterns and teacher/student ratios vary from center to center. Table 8 presents the teacher/student ratio data.

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Teacher/Student Ratios

| Ratio      | Perc | Percent of Centers Reporting |         |  |  |  |
|------------|------|------------------------------|---------|--|--|--|
| · .        | GED  | Math                         | Reading |  |  |  |
| Below 1:10 | . 93 | 63                           | 6%      |  |  |  |
| 1:10       | 14%  | 63                           | 18%     |  |  |  |
| ) 1:15     | 39%  | 47%                          | 44%     |  |  |  |
| 1;18       | 17%  | 18%                          | 20%     |  |  |  |
| 1:19       | 63   | 0%                           | ` 0% -  |  |  |  |
| 1:20       | 63.  | 20%                          | 9%      |  |  |  |
| ^ . 1:25   | 9%   | 3%                           | 3%      |  |  |  |

A teacher/student ratio of 1:18 is considered to be the maximum that should be evidenced within the Job Corps program. These data show that 21 percent of the surveyed centers have ratios greater than this within GED; 23 percent in mathematics; and 12 percent in reading. This appears to demonstrate that at least some of the centers are currently understaffed.

Salary ranges for teachers also differ significantly, with the minimum salary as low as \$9,500 and the maximum salary as high as \$26,900. Data obtained from the teachers as part of the attitude questionnaire indicate that teachers are not being comparably paid for experience



across centers. There is apparently no consistency in salary range or in criteria for salary evident at this time.

Qualifications for teachers also appear to show some variations. Ninety percent of the centers reporting state that a bachelor's degree is required; 68 percent report that a state certificate is necessary; and 30 percent say that experience is necessary. There are, additionally, other differences relating to such things as areas of expertise and experience with minority/disadvantaged youth. Approximately 92 percent of the centers reporting believe that their staff is above average with regard to meeting minimum qualifications, and, yet, 33 percent of the sampled centers feel that minimum teacher requirements should be changed, while 67 percent do not want a change.

The information on teacher aides provided valuable data. Eighty-four percent of the centers report that they do use teacher aides in the Basic Education programs, and 81 percent state that they use aides in the GED program. However, the type of aide utilized varies widely. The majority, 70 percent, are corpsmembers, while others include volunteers, interns, and CETA enrollees.

Qualifications vary from anyone who has completed the Job Corps mathematics and reading programs to two years of college. Training ranges from none to the same training as instructors receive. Salary ranges from none to \$12,334 per year. Only 6 percent of the surveyed centers report that they have a vocational training cluster for aides. Again, because of



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differences in both qualifications and training, comparisons relating to the functioning of aides cannot be made on a center-to-center basis.

#### C. Accreditation

Carnegie units or high school credits that will be accepted by the states can be given in only 16 percent of the centers sampled. Only three centers report that they are accredited to issue a state high school diploma.

#### D. Placement Data

Approximately 63 percent of the centers report that they do keep placement data on corpsmembers other than on Form 72 which is gathered on termination; however, the type of data which is maintained appears to vary widely. Approximately 26 percent of the centers which maintain placement data keep records for 9-12 months, while 74 percent keep them longer than 12 months. Maintenance of follow-up data also varies dramatically. What is seemingly evident from the data collected to date is that there is no consistent procedure apparent within the Job Corps for maintaining placement and/or follow-up data on corpsmembers beyond the standard termination documentation.

#### E. Inferences

There are several inferences which can be drawn from the data on the Basic Education Director Questionnaire. The first of these is that the



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teacher/student ratios lead one to believe that some centers may well be understaffed or are having difficulty filling vacancies. The number of vacancies vs authorized slots is a major indicator of this. While aides are used in most centers, differential qualifications and training imply a lack of consistent utilization of these individuals to reduce teacher/student ratios and increase the one-to-one contact so vital to the effective use of programmed materials.

There is apparently no single totally consistent Basic Education or GED program in use in Job Corps centers. The core program is supplemented and adapted in a number of ways. Additionally, there is little consistent placement testing or gain testing procedure in evidence within the Job Corps at the present time. Coupled with this is the fact that there is no standardized recordkeeping procedure currently being utilized that yields the type of data needed on educational gains to continually update and improve the program.



#### III. TEACHER ATTITUDE QUESTIONNAIRE

The analysis of the Teacher Attitude Questionnaire was based on the tabulation of item means and the correlation between the total score on the attitude questionnaire and the demographic information which was asked. Additional correlations were computed utilizing portions of the questionnaire. The calculation of the item mean provided information concerning general attitude on the specific question content. Calculation of the correlations provided information on whether there was a relationship between attitude and demographic data. It was believed that, if there were fairly strong correlations, the demographic data might be used as predictors of attitude.

Approximately 380 teachers in both contract and conservation centers were interviewed during the course of the study. The attitude items which were asked were based on a 5-point Likert scale. On this type of scale, the ideal item mean is 3--the point of neutral opinion. If the item mean is 3, the inference is that there is a balanced mix between positive and negative attitudes. Only in this instance can the item have maximum potential to discriminate between persons of positive and negative attitudes. As the item mean departs from 3, the item is less and less capable of discriminating between these attitudes.

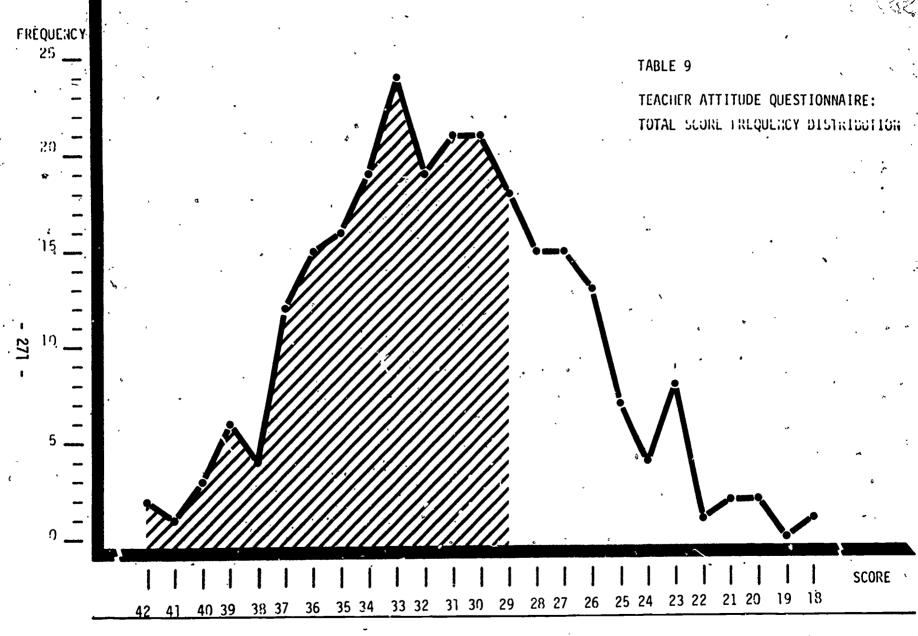
For this questionnaire, the researchers determined that a high total score demonstrated a positive attitude toward the referent (teaching in Job Corps) and that, correspondingly, a low total score meant a negative attitude. Using this as an overall rationale, it can be seen that an item

with a mean greater than 3  $(\overline{X}>3)$  shows that people feel positively about the object of the question and that an item mean less than 3  $(\overline{X}\leqslant3)$  illustrates that they feel negatively about the subject. Scaling of each item took into account the positive or negative phraseology of each statement.

The frequency distribution of total scores for this sample may be found in table 9. The shaded portion of the graph includes all of the results above the midpoint of the possible score range (i.e., positive attitude). This suggests that teachers have a quite positive attitude about the Job Corps education program.

Analysis was performed on the 100 questionnaires with both the highest and lowest total scores (n=200). Consultation with expert statisticians and evidence from previous research showed that calculations based on a sample of this size are very close to those which would be obtained on data from the total available sample. The amount of measurement error involved in using this procedure has been shown to be very small. Table 10 presents the results which were obtained from the sample of 200 teachers. Results broken down into regional data may be found in appendix A.

As can be seen from the item means, the teachers feel that their centers are good places to work in and that administrators treat them fairly (items 1 and 4). They also feel quite strongly that their jobs are both interesting and challenging (item 2). Additionally, while their feeling about the adequacy of the existing educational program is basically



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### TABLE: 10

#### Teacher-Attitude Questionnaire Item Means

|                    | Item means   |              |
|--------------------|--|--------------|
| Item<br>Number     | Item   | Item<br>Mean |
| 1 .                | This center is a good place for a teacher to work.                           | 3.85         |
| 2                  | This job is interesting and challenging.                                     | 4.29         |
| 3                  | I get enough recognition for the task I'm performing.                        | <b>3.</b> 33 |
| . 4                | The center administration treats me fairly.                                  | 3.67         |
| 5 .                | If Job Corps teachers were paid more, they would be more effective teachers. | 2.78         |
| 6                  | The materials and learning system which I use are not adequate for the task. | 3.03         |
| 7 .                | There are new materials that could help me do a better job in my area.       | 4.14         |
| 8                  | I would like to be able to develop curriculum materials on my own.           | 4.08         |
| 9,                 | Working with programmed instructional materials gets boring for a teacher.   | 2.78         |
| . 10               | The students would be more receptive, depending on what I did.               | 4.30         |
| Overall<br>Average | •  | 3.70         |

neutral (item 3), they firmly believe that there are new materials which could help them to do a better job (item 7). The desire of teachers for new educational materials is bolstered by their belief that they can successfully influence student motivation (item 10).

A correlation coefficient represents a measure of association between two things. The range of the correlation coefficient (Pearson Product Moment) is from -1 to +1 with 0 showing no relationship  $(r=-1 \leqslant 0 \leqslant +1)$ . The interpretation of this statistic is that a correlation greater than 0  $(r \geqslant 0)$  means that the relationship is positive, and a correlation less than 0  $(r \leqslant 0)$  means that the relationship is negative or inverse. As the correlation coefficient departs from 0 and gets closer to either -1 or +1, the relationship between the two factors is said to be stronger. (Illustration: A correlation of r=+.8 between salary and attitude would show that as salary increases, attitude becomes more positive. A relationship of r=-.6 between salary and attitude would show that as salary increases, attitude becomes more negative.)

It should be noted that correlations cited in this report can be meaningful despite, their seemingly small size. The magnitude of the correlation coefficient can be attenuated by both sample size and range of the data. Thus, for larger samples or for data with a wider range, the described relationships might be stronger. The correlations presented herein should be interpreted in that light. Table 11 contains the relevant correlations computed utilizing teacher attitude data.

# TABLE 11 Teacher Attitude Correlations

| Correlation  | Result |
|--|--------|
| Number of years teaching/total teacher attitude score                                      | 23     |
| Number of years teaching in Job Corps/total teacher attitude score                         | 20.    |
| Teaching hours per day/total teacher attitude score  | .03    |
| Salary/total teacher accitude score  | .09    |
| Teacher question 5/salary for teachers   | .13    |
| Average of teacher questions 1, 2, and 3/salary  | 26     |
| Average of teacher questions 1, 2, and 3/number of years teaching                          | 23     |
| Average of teacher questions 1, 2, and 3/teaching hours per day                            | .24    |
| Average of teacher questions 1, 2, and 3/student:teacher ratios                            | 23     |
| Average yearly cost for education per CMY/teacher overall satisfaction with administration | .22    |
| Average yearly cost for materials/teacher question 6                                       | .18    |
| Average yearly cost for materials/teacher question 7                                       | 02     |
| Average yearly cost for materials/average of teacher questions 6 and 7                     | .14    |

Several interesting conclusions are suggested by these correlations, although in most cases the results are more significant in terms of direction than in terms of degree of correlation.

- 1. Satisfaction and attitude toward the Job Corps education program declines with length of teaching experience and tenure in the program.
- 2. Longer teaching hours per day do not undermine satisfaction and attitude. In all likelihood, the teachers with less seniority have longer hours, so the more positive views of new teachers may be reflected in this correlation.
- 3. Teachers are more satisfied and positive when they have fewer students and can provide individualized attention.
- 4. The more teachers are paid, the more they feel that pay increases are required to make Job Corps teachers more effective. Satisfaction and attitude are inversely correlated with salary. It may be that salaries do not progress commensurately with seniority, and this may be the cause of the less favorable attitudes of senior teachers. On the other hand, negativism may be caused by tedium and lack of change, with the regative relationship between salary and satisfaction being explained by the relationship between tenure and salary.

In summary, it can be seen from these data that, while teachers view the Basic Education and GED programs positively, they do perceive some weaknesses

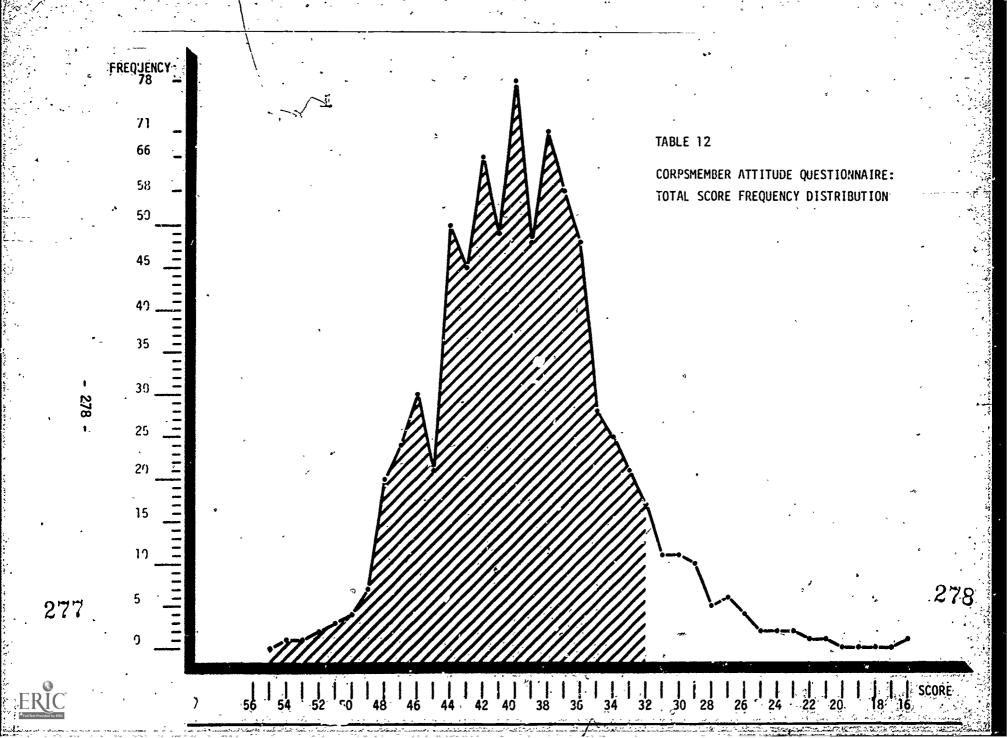


there are new materials which could help them do a better job: The teachers sampled in this study firmly believe that student receptiveness to the program is dependent on what teachers do and that new materials would facilitate this effort.

The analysis of the Student Attitude Questionnaire was based on the tabulation of item means and the correlation between the total score on the questionnaire and the demographic information which was asked. In addition, correlations were computed utilizing relevant portions of the attitude questionnaire. The calculation of the item means provided information concerning general attitude on the specific question content. The calculation of the correlations provided information as to whether there was a relationship between attitude and specified demographic data. It was believed that, if there was a fairly strong correlation, the demographic data might be used as a predictor of attitude.

Approximately 800 corpsmembers in both contract and conservation centers were interviewed during the course of the study. The frequency distribution of the total scores for this sample may be found in table 12. The shaded portion of the graph includes all corpsmembers whose total score on the attitude questionnaire was above the midpoint of the possible score range (illustrating positive attitude). The analysis was performed on the 100 questionnaires with the highest total score and the 100 questionnaires with the lowest total score (n = 200). The general consensus is that there would be very little additional measurement error involved in using this procedure rather than total sample analysis.

The item means which were obtained from the corpsmember sample were very en ouraging (table 13; regional breakdown may be found in appendix B).



### TABLE 13 Student Attitude Questionnaire Item Means

| . <del></del>  |   |              |
|----------------|---|--------------|
| Item<br>Number | Item  | Item<br>Mean |
| 1              | Job Coros is giving me a chance of an education that I couldn't get any other way.    | 3.56         |
| 2              | The education classes here are more interesting than when I went to school back home. | 3.27         |
| . 3            | I learn more here than I did in school.   | 3.59         |
| 4              | I wish they would do something to make reading and math more interesting.             | 3.54         |
| 5              | My teachers give me enough individual attention in class.                             | 3.63         |
| 6              | I am treated fairly by my basic education or GED teachers.                            | 4.04         |
| ~ 7 ·          | I consider my teachers as friends here.   | 3.97         |
| . 8            | My teachers respect me as a person.   | 4.04         |
| , .9           | The people who go home from Job Corps early do so because the classes are too dull.   | 3.67         |
| 10             | The education program is nothing like what I was told it would be in my orientation.  | 。3.13        |
| Overal1        |   | ۵            |
| Average        |   | 3.65         |

The students appear to have a very positive attitude toward the Job Corps Basic Education and GED programs.

Corpsmembers feel that something should be done to make reading and mathematics more interesting. This independent assessment agrees with the belief of the teachers that, although the in-use materials are adequate, there are new materials which could be better. In addition, corpsmembers seem to feel, as evidenced by comments, that programmed instruction tends to get boring. This supports the use of supplemental learning aids.

What should be noted is that, for the sampled concepts, the Job Corps student likes what is happening. He feels that teachers are treating him fairly (item 6), that he is getting enough attention in class (item 5), that his teachers are friends (item 7), and that, above all, he is being respected as a person (item 8). Thus, in the eyes of the students, the teachers are performing far above an average level in these areas.

The Pearson Product Moment Correlation Coefficient, which was the statistic utilized for this analysis, determines the strength of association between two things. The range of the Pearson r is from -1 to +1, with 0 showing no relationship (r=-1 < 0 <=1). However, it should be noted that this statistic is accurate only for linear data. (Illustration: A correlation of r=+.75 between months in Job Corps and overall attitude would show that, as a person stays longer in Job Corps, attitude gets better. A correlation of -.4 between these two factors would show that, as a person stayed longer in Job Corps, attitude became more negative.) The correlations for the corpsmembers interviewed in this study are presented in table 14.

### TABLE 14

### Student Attitude Correlations

| Correlation   | Result |
|---|--------|
| Months in Job Corps/total attitude score  | .04    |
| Age/total attitude score  | .02    |
| Enrollment in Basic Education or GED/total attitude score   | . 27   |
| Last grade attended/total attitude score  | .11    |
| Student question 5/student:teacher ratio by center  | 58     |
| Average yearly cost for materials/student question 4  | 28     |
| Teacher overall satisfaction by center (questions 1-4)/<br>student overall satisfaction by center (questions 1-3) | .10    |

Several insights are suggested by these correlations:

- 1. These correlations reveal that there is no significant relationship between months in Job Corps and attitude or between corpsmember age and attitude. Thus, oerceptions about the Job Corps do not change, at least while the student is in the program.
- 2. Students notice and feel they benefit from individualized attention when the number of students per teacher is reduced:
- 3. Students are more satisfied with materials when expenditures for materials increase.
- 4. In centers where teachers tend to be more satisfied and have positive attitudes, students also seem to share this positivism.
- 5. Youth who are in the GED program are more positive about educational offerings than those in Basic Education.

#### V. RECOMMENDATIONS

This information about the education program in Job Corps suggests administrative and policy measures which may be required to improve the program.

#### Administrative and Policy Recommendations

- Implement a consistent procedure delineating responsibility for test administration and a set time for placement test administration.
- Institute a standard program for corpsmember GED placement.
- Develop a standard procedure for maintenance of educational data in terms of who maintains it and for how long.
- Adopt a single standardized test such as the Stanford
   Achievement Test (SAT), the California Achievement Test (CAT),
   or the Sequential Tests of Educational Progress (STEP) for measuring gains in reading and math.
- Investigate the possibility of instituting GED testing at the larger Job Corps centers.
- Establish standardized qualifications for teacher aides and study the most advantageous use of aides within the Job Corps educational program.
- Implement a consistent procedure for improved placement and follow-up data in order to obtain and maintain an accurate data basc.
- Standardize the Basic Education and GED programs and concommitant data-gathering procedures within feasible cost and staffing limitations.

As part of its commitment to improving all Job Corps components, an Educational Improvement Effort is planned for fiscal 1979 and fiscal 1980 which will test alternative educational systems and approaches within Job Corps centers. The information mathered in this survey provides insights into the design of the EIE.

- A staffing model should be tested utilizing a master teacher and teacher aides to determine if they can assist in lowering teacher/student ratios and in increasing educational gains.
- Since there is such variability in tests and orocedures, a
   standardized test or test battery must be introduced for
   measuring educational gains to facilitate determination of
   comparability of gains from the same model across sites.
   This will enable the calculation of a model by site interaction.
- An educational model such as API should be tested in order to increase the percentage of centers able to give Carnegie units or to obtain state accreditation.
- New materials and a new GED program should be tested to accommodate the desire of teachers for new educational materials.
- Computer-assisted instruction models should be assessed to determine if supplemental hardware of this nature can increase educational gains and/or student motivation at a reasonable cost.

If these recommendations are successfully implemented and evaluated, the refinements which have been field-tested in the centers can be universally implemented to continue improvements in the Basic Education and

GEO programs. Furthermore, the EIE should be only the beginning of the revitalization of the in-center programs and should be expanded to survey, test, and improve all facets of the Job Corps learning systems with a special emphasis on integrating yocational and educational programs and spreading the use of existing successful vocational materials. In this way, thousands of both present and future Job Corps enrollees could be provided with even more effective and efficient programs.

APPENDIX A
SAMPLED CENTERS .

## CENTERS WHERE INTERVIEWS WERE CONDUCTED

| Region       | Center   |
|--------------|--|
| III          | Blue Ridge<br>Charleston<br>Keystone<br>Maryland (Woodstock)                                       |
| IV<br>S      | Atlanta Breckinridge Crystal Springs Jacobs Creek Lyndon Johnson Oconaluftee Schenck Whitney Young |
| · V          | Cincinnati<br>Cleveland<br>Detroit<br>Golconda   |
| VI           | Cass El Paso Gary Guthrie Mc Kinney Ouachita Treasure Lake Tulsa                                   |
| VII and VIII | Clearfield<br>Collbran<br>Excelsior Spring<br>Kicking Horse<br>Mingo<br>Pine Ridge.<br>Heber Basin |

| Region |   | Center  |  |
|--------|---|---|--|
| IX     | , | Phoenix<br>San Jose                                 |  |
| X      |   | Angell Ft. Simcoe Portland Timber Lake Tongue Point |  |

| Region | . 6  | Center  |   | , " | *   |
|--------|------|---|---|-----|-----|
| Ίχ     | <br> | Phoenix<br>San Jose   |   |     | · , |
| X      |      | Angell<br>Ft. Simcoe<br>Portland<br>Timber Lake<br>Tongue Point | • | ,   |     |

APPENDIX B

ATTITUDE ITEM MEANS BY REGION
TEACHER ATTITUDE QUESTIONNAIRE

TABLE B

# Teacher Attitude Questionnaire

|                    |  |             |          | ا و      | I tem Means    |                    |             |              | The second secon |  |
|--------------------|--|-------------|----------|----------|----------------|--------------------|-------------|--------------|--|--|
| Item<br>Number     | !tem   | Region<br>3 | Region 4 | Region 5 | Region<br>6    | Regions<br>7. \$ 8 | Region<br>9 | Region<br>10 | -Total   |  |
| 1                  | This center is a good place for a teacher to work.                           | 3.63        | 4.00     | 3.61     | 3.86           | 3.53               | 4.10        | 4.25         | 3:85   |  |
| 2.                 | This job is interesting and challenging.                                     | 4.37        | 4.00     | 4.17     | 4.33           | 4.21               | 4.30        | 4.25         | 4:29,  |  |
| 3                  | I get enough recognition for the task I'm performing.                        | ,3.21       | 3.22     | 3.11     | , 3 <b>.28</b> | 3.76               | 3.40        | 3.35         | 3,33   |  |
| 4                  | The center administration treats me fairly.                                  | 3.16        | 4.05     | 3.44     | 3.63           | 3:41               | 3.90        | ··4.10       | 3.67   |  |
| , 5·               | If Job Corps teachers were paid more, they would be more effective teachers. | 2.58        | 2.72     | 1.94     | 2.67           | 2.91               | 2.50        | }<br>> 3.40  | 2.78   |  |
| 6                  | The materials and learning system which I use are not adequate for the task. | 2.58        | 2.83     | 3.11     | 3.23           | 2.63               | 3.10        | J.25         | <b>3</b> 03  |  |
| 7                  | There are new materials that could help me do a better job in my area.       | . 4.00      | 4.33     | 4.39     | 3.74           | 4.09               | 4.10 -      | 4.55         | 4.14   |  |
| .8                 | f would like to be able to develop<br>curriculum materials on my own.        | 4.32        | 4.62     | 4.22     | 4.00           | 4.12               | 4.10        | 3.80         | 4.08   |  |
| g                  | Norking with programmed instructional materials gets boring for a teacher.   | 2.63        | 2.44     | 3.11     | 2.86           | 2.38               | 3,10 _      | 3.10         | 2.78   |  |
| 19                 | The students would be more receptive depending on what I did.                | 4.21        | 4.39     | 4.44     | 4.12           | 4.47               | 4.10        | 4.35         | 4.30   |  |
| Overall<br>Average | i di   | 3.47        | 3.66 °   | 3.55     | , 3.57-        | 3.56               | 3.67        | 3.84         | 3.62   |  |

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APPENDIX C
ATTITUDE ITEM MEANS BY REGION
STUDENT ATTITUDE QUESTIONNAIRE

# Student Attitude Questionnaire Titem Heans-by-Region

| X                   | -   | Item Means  |               |          |           |                  |        |               |       |
|---------------------|---|-------------|---------------|----------|-----------|------------------|--------|---------------|-------|
| Item<br>Number      | . Item  | Region<br>3 | Region<br>4   | Region-  | CRegion 6 | Regions<br>7 4 8 | Region | legion<br>19. | Tôtal |
| 1                   | Job Corps is giving me a chance of an education that I couldn't get any other way.    | 3.68        | 3.06          | . 3.46 % | 3.89      | 3.50             | 3.60   | 3:24          | 3.56  |
| 2                   | The education classes here are more interesting than when I went to school back home. | 3.58        | <b>P</b> 2.53 | 3.46     | 3.49      | 3.19             | 3.70   | 3.00          | 3.27  |
| 3                   | I learn more here than I did in school.   | 3.58        | 2.82          | 3.77     | 3.74      | 3.62             | 3.80   | 3.88          | 3.59  |
| . 4                 | I wish they would do something to make reading and math more interesting.             | . , 3.26    | 3.85          | 3.46     | 3.66      | 3.33             | 3.50   | _3.59         | 3,54  |
| 5                   | Hy teachers give me enough individual attention in class. ?                           | 3.53        | 3.29          | 3.85     | 3.72 °    | 3.76             | 3.90   | 3.41          | 3.63  |
| . 6                 | I am treated fairly by my Basic Fducation or<br>GEO teachers.                         | 4.26        | 3.79          | 4.15     | 4.02      | 4:07             | 4.10   | 4.12          | 4:04  |
| ·7                  | I consider my teachers as friends here.   | 4.00        | 3 58          | 3.85     | 4.09      | 4.21             | A:00   | 3.59          | 3.97  |
| 8 ,                 | My teachers respect me_as a person.   | 4.16        | 3.91          | 4.31     | 4.17      | 3.93             | 4.10   | 3,71          | 4:04  |
| - 9                 | The people who go home from Job Corps early do so because the classes are too dull.   | 3.89        | 3.26          | 3.60     | 3.85      | 3.74             | 3.50   | 3.41          | 3.67  |
| io                  | The education program is nothing like what I was told it would be in my orientation.  | 3.32        | 2.56          | 3.31     | 3.36      | 3.26             | 3.30   | 3.13.         | 3.13  |
| Overall<br>-Average |   | 3.73        | 3.28          | 3.73     | 3.80      | 3.66             | 3.77   | 3.51          | 3.65  |

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Dannielle Shultz

The following is a summary of significant elements of the Job Corps Basic Education Program as described in various Job Corps reports. It cannot be emphasized too strongly that statements which appear within are not necessarily—those of the author, but a synthesis of the opinions and research of the referenced studies going back at least ten years. Given the normal questions as to the reliability and validity of these studies, any conclusions should be considered sceptically and the study consulted for a closer look at the specific data. This paper only attempts to summarize the research and its stated conclusions.

### Entry Levels/Gains Data

attainment, despite having completed many more years of school than their attainment scores reflect. According to an ABT study based on Job Corps data, 66% of corpsmembers in 1969 had reading levels below sixth grade and 64% had similar math levels, while 1971 the corresponding figures were 69% and 76%.

Therefore, between two-thirds and three-quarters of Job Corps entrants

have reading and math skills below the level necessary for the GED.

Also, the study showed that virtually no corpsmembers (only 3% - 7%)

have high school level skills.

Most corpsmembers show some gain during their Job Corps stay. In general, the lower the beginning level, the greater the gain. However, some studies indicate that this may be due more to remembering what had been forgotten rather than assimilation of totally new material. While nearly 80% of corpsmembers in the introductory (below third grade) program show gains, 66% of those in the elementary program (third to sixth grades) show gains, and this is further reduced—to—about one half of corpsmembers showing gains in the intermediate (seventh and eighth grades) program. And not only were fewer making gains, but those that did were gaining at a progressively slower rate.

About three quarters of all Job Corps participants have completed formal schooling only through tenth grade and those that stay in Job Corps the longest have completed the least amount of schooling. This would indicate that those who need the program most (or know they have the fewest "outside" opportunities) opt for the longest stay. However, another study (Engleman, 1971) found that the educational level associated with longest length of stay was 6.3 grade levels on entry, perhaps indicating frustration at one end and boredom at the other.

Mctual rate given has been reported to be about fifth grade level/four months for both reading and math (with as many losses as gains in math) for the five best Conservation Centers (1967), as measured by the S.A.T.

This study (A&R Reports No. 5) chose the S.A.T. because it claimed the population of standardization was similar to Job Corps, the contents paralleled Job Corps programs, and data was reported in public school grade levels.\*

Engleman (1971) is sceptical of these claims, and in his re-analysis of the same data, he found average gain to be .69 grade levels/4.8 months (reading) and .70 (math); however, this rate was achieved by those at a 6.1 entry grade level. Also, the higher the entry level, the lower the rate of gain, and there was no significant difference between centers.

Math gains were more precisely correlated with length of stay than were reading gains; Engleman believes that vocational education classes act more as reinforcers and refreshers for math rather than reading skills.

In general, while Job Corps participants' gains did not meet or exceed public school norms, they probably exceeded gains the corpsmembers themselves had actually achieved in the public schools.

<sup>\*</sup> In a separate study (Morgan Press, Inc.), the GATB was also found invalid for corpsmembers.

It is frequently cautioned that the gains testing of Job Corps is highly suspect in testing procedures and validity and teliability of both tests used and scores reported. There have been wife fluctuations in gains reported, from the above mentioned to as much as 5/month. Thus, this data is highly suspect.

# GED Certificate

Even using the above data as a starting point, we can conclude that, given the average length of stay, a large percentage of corpsmembers will not be able to achieve a high enough grade level (variously described as sixth or seventh grade) to pass the GED.

It is difficult to wetermine from the literature just what percentage of corpsmembers actually earn the GED, but at least one study suggests that 11% of enrollees and 40% of those staying beyond four months (average stay is about four to five months) gain a GED. Another study claims that only about one fourth of Job Corps participants complete the Basic Education Program:

As of September 1978, approximately 10% of enrollees were passing the GED and 30% of enrollees at least entered the program. Of those taking the test, nine out of ten passed it and received a GED certificate. The higher the entry level (naturally) the greater the chance of earning the GED.

According to several studies, earning a GED is probably the most valuable benefit to be derived from Job Corps. While studies frequently mention that the vocational education segment is the most popular area with corpsmembers, employers tend to regard Job Corps experience or vocational training as insufficient experience for the actual trade. Project Thresholds's (an experimental New York City half-way house) experience with corpsmen and employers showed that:

a high school diploma or GED is the best job preparation the Corpsmen can have.

#### because:

Significantly more Corpsmen who had acquired GED's (High School Equivalency) retained their jobs longer as opposed to those who had no GED. The same relationship existed between pre-Job Corps high school graduates and those without GED's.

and finally,

The diploma or GED shortened the time necessary to secure employment and usually assisted the Corpsmen in finding work that was directly related to his vocational goals and interests.

Ironically, then, that which is perceived by corpsmembers as less job related turns out to be most job related.

If the GED or a diploma is—therefore so cructal, then what does the research suggest are the factors leading to interest in and success in the Basic Education Program?

## Satisfaction and Attainment in Basic Education

There are several important factors contributing to how satisfied the corpsmember is with the education program and how much gain he or she attains while in the program. Besides length of stay and level at entry (as discussed above) the research suggests the following:

- 1. Correspondence Between Corpsmembers's Pre-entry Expectations and Their Perception of Job Corps Actuality. The closer the fit, the more satisfied the corpsmember. The most recent study (Mathematica, 1978) suggested that the education program (along with job training) is most likely to be rated positively among the various segments of Job Corps, and that it closely fits their previous expectations. However, females, blacks, and older enrollees are more likely to rate the education program positively. Another study (Abt, 1973) confirmed this in about 80 percent of its sample.
- 2. Alternation of Scheduling. Studies have found that alternating basic education with vocational training makes for higher corpsmember satisfaction and better retention. The vast majority of enrollees view Job Colps as a job program rather than an academic program (which is in fact accurate) and higher satisfaction and greater correspondence with expectations (as above) is achieved if all corpsmembers' programs include vocational education. Indeed, in a few Conservation Centers where daily

alternation was impossible due to the distance to work sites, this was felt to be a major cause of lower retention for those sites.

The main difficulty with alternating the two segments appears to be that vocational education presupposes competence in basic skifls which corpsmembers may only just be acquiring. Thus, there is a need either to find materials and structure experiences to match corpsmember levels, and/or to incorporate vocational content into the Basic Education Program. However, the first approach may further minimize the work experience value of vocational education, since the program may be so simplified that the experience does not correspond to actual work. The second approach may alienate corpsmembers—who want work experience, not more formal schooling.

If basic education courses are not specifically vocational in content, then the studies indicate that there should be "positioning of general education courses in terms of their relationship to economic self-sufficiency, e.g., the job itself, money management, career path, etc."

3. Feedback/Time Completion. Yankelovich found that corpsmembers have a strong need for time-limited completions and quick feedback. In other words, corpsmembers need to be able to measure progress through unit-completion type programs, have a clear sense that they are at a certain level, and have finished and "put away" previous levels. Also, Yankelovich suggests that corpsmembers be given a prediction of just how long they need to stay in Job Corps to complete their stated goals, since

those who feel it "could go on forever" are likely to give up due to lack of any sight of goal attainment.

- 4. Remedial or Compensatory Education. According to work at the "Omaha lob Corps Center, remedial reading programs were found effective only with those at a 4.9 reading level or below. Other studies suggest stigma attached to being pulled out of the classroom or regular programs, or assigned to a special program for the very lowest levels, so such remediation should probably take place within the normal setting.
- 5. Incentives. The evidence for gains related to incentives is uncertain, but generally is unfavorable. In a study at the L.A. Job Corps Center, a \$5 award was offered to counteract hypothesized apathy or antipathy to gains testing -- if a gain was shown over the previous score, the award was made. There was no significant difference between the groups.

In experiments with points and token economy systems, the administrative "bookkeeping" requirements were found to be too complex and too time consuming, and to generate too many arguments and attempts to "beat the system" on the part of corpsmembers.

6. Teacher/Student Interaction. This is divided into two parts.

The first part includes such factors as actual amount of time spent in the classroom and particularly, how much of that time is spent in genuine teacher-student interchange: how often each talks to each other as opposed

to a passive: active/student: teacher relationship and how many non-verbal cues the teacher gives the student to indicate attention and response.

Besides frequency and vitality of interaction, teacher attitude is a significant affector of student performance. Communicated concern, high expectations coupled with high confidence in students, and, in general, old-fashioned love and concern have a profound effect on student achievement. Many studies rate this as the most important determinant. This argues for programs with a high degree of teacher-student interchange as opposed to self-instruction.

### II. Summary

Basically, the bulk of the research concludes that most corpsmembers enter Job Corps at a very low educational level and make some gains, though usually not enough to earn a GED. Programs should have materials which are geared in subject to adults and which are perceived as directly relevant in content to employment and, particularly, vocational skills. However, while materials are an important area of concern for corpsmembers, corpsmember-teacher interaction is the most significant determinant of actual gains.

Receipt of the GED certificate shortens the time necessary to find a job, makes it more likely that the corpsmember will find one close to his or her interests, and increases the corpsmembers retention in a job. There is indication that a GED is the single best job preparation a corpsmember

reading/math level and/or stay too short a time to achieve the level necessary for the GED.

It has been found that scheduling close alternation of the academic and work experience segments leads to better retention in the program. However, corpsmembers prefer the experience and job training to basic education, and the vocational education is much more a break from the academic rather than vice versa.

Corpsmembers appear to view the purpose of Job Corps as job skills training and tend to object to segments which are reminiscent of their (frequently detested) experiences with formal education.



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Plans and Programs Directorate "Job Corps Evaluation and Research:

Fiscal Years 1967-1968" June, 1969

JOB CORPS WORLD OF WORK CURRICULUM
NEEDS ASSESSMENT

AND

RECOMMENDATIONS FOR CURRICULUM MODIFICATION

Jane L. Melton Joseph Wrobel

Office of Youth Programs
Report Number 13
February 1979

The World-of-Work program was instituted in Job Corps centers in 1975. Its purpose is to provide corpsmembers with the job seeking and job holding skills, information and attitudes which help them succeed in the labor market. The program supplements more extensive education and vocational training offerings at centers.

Evidence is clear-cut that entering corpsmembers lack many of the skills needed for success in the labor market. While the employment and earnings gains of enrollees are proof of improvements in employability, it is difficult to isolate the separate impacts of vocational training, education credentials attained, placement activities, and improved job seeking and job holding skills or attitudes which can be attributed to WOW.

A study of the noneconomic impacts of Job Corps does not provide evidence of improvements in knowledge of attitudes toward or interest in work. A test to measure skills needed in looking and applying for work found that both completers and dropouts gained less over the period of enrollment than a control group which Experience in the labor market proved more useful than classroom instruction in jobseeking skills. measure awareness of employer expecting to assess understanding of different job content and another to measure confidence in job skills, revealed, again, that Job Corps enrollees lost some ground relative to controls. Corps completers did better than controls on tests measuring work relevant attitudes, work ethics, subsequent job satisfaction, and positiveness about the future. In other words, it appears that Job Corps has a greater effect on maturing youth for labor market preparation than in providing knowledge about how to find or hold jobs or what to expect in the worksite.

Firsthand experience in the labor market may be the best teacher, and the potential and actual contribution of the World-of-Work program is essentially untested.

This report combines a brief description of the World-of-Work program currently inplace, recommendations for possible curriculum modification resulting from a conference of World-of-Work instructional experts, and survey of available materials. It suggests that the core program is quite modest, amounting to a total of between 10 and 60 hours of instruction. In the core program there are no graded standards or specific tested skills that must be mastered; most observers feels that this undermines the seriousness of student commitment. Other materials are commercially available which could usefully supplement the core program and some centers already use these supplements.

It remains uncertain, however, how any program will function in the Job Corps setting and expend as required. Also, the emphasis to be given to Work-of-Work versus more broadly defined life skills, and to either of these relative to basic educational or vocational training, has not been determined. More information and testing is required before policy decisions can be made.

Robert Taggart Administrator Office of Youth Programs

# CURRENT IMPLEMENTATION OF

THE JOB CORPS WORLD OF WORK PROGRAM

Introduction ..

The current Job Corps World of Work program is being implemented in a variety of ways at different centers. This brief report includes a partial description of materials (audio-visual and print) which are currently used in Job Corps centers, a short outline of current course structure, and recommendations for steps to be taken during program review and revision.

Implementation of the World of Work program is uneven for two reasons:

(1) the lack of written objectives, and (2) the plethora of supplemental materials of different quality.

The employability portion of the program is designed to teach corpsmembers skills necessary to get and keep a job, but there is <u>no</u> formal statement containing behavioral learning objectives that specifies these skills so that meaningful evaluation can take place. Some centers have rewritten their own course curriculum. We are compiling this information now, in the hope that we will have time allotted to set forth a comprehensive list of objectives and to devise an evaluation instrument for the World of Work program. (Most of the centers have <u>not</u> developed lists of behavioral objectives.)

The program, as it is currently implemented, consists of the EDI, Inc., audiotapes and workbooks. Many centers have supplemented these with numerous commercial materials. We will attempt to describe in this report the major supplemental materials in use. We cannot provide a total listing without contacting each center. For example, Cass Job Corps center has done an excellent job of identifying and utilizing a wide variety of materials in its program (see attachment 3). Cass is already using some of the Janus workbooks and simulation activities which we have recommended for widespreaduse, in addition to using audio materials from Mafex Associates, Inc., Eye Gate House, Guidance Associates, and other companies. (For a description of the types of materials mentioned, see attachment 1.)

Charleston Job Corps center is relying on the Ptf (Pre-Employment Training) series by Innovative Sciences, Inc., in a tape and workbook format.

Potomac Job Corps has received a lot of free material from the federal agencies surrounding it. Some Singer centers, such as Westover, are using the "Job Survival Kit," a filmstrip series which they have developed.

The Hawaii Job Corps center seems to have a program most similar to that of the Adkins Employability Skills program in that the instructer uses the videotape recorder to provide students with feedback on simulation activities; the students perform research to obtain information about various jobs, including information interviewing and reading about the

job, and community resources are utilized in order to provide students with a realistic assessment of the job. Moreover, seven of the conservation centers are using the 3M Contempo Lab program described in the conference report.

Some centers have developed their own course curricula. For example, the Charleston Job Corps center conducts two week mini-units on consumer topics—such as money-management, food, parenting, and so on. These units are workbooks which include written tasks to be performed for completion. In the employability portion of the program, the EDI and Innovative Sciences, Inc.; workbooks are used.

At the Pittsburgh Job Corps Center, the instructor has developed a series of workbooks, each containing a unit of study. The student has tasks to perform (i.e., listening to an EDI tape and completing a question/answer form, filling in vocabulary lists, and so on) in order to complete the unit. We would urge the continuation of creative efforts of this kind; this type of work can be incorporated into a revised program.

### Course Structure

Those centers which are using supplemental materials and devising their own materials have typically structured their course as follows: The instructor has approximately 18 to 20 students per class. The intake is approximately seven to ten students per week. The courses usually run from eight to sixteen weeks, depending on the rate at which the student covers the material.

Some centers offer a mix of individual and group instruction. For example, three days a week, students perform workbook exercises; two days a week are devoted to group discussion.

Those centers which rely mainly on the EDI materials usually run a mach shorter program. Some centers offer students 5 to 7 days of instruction, one day per week for 5 to 7 weeks. The main activity is listening and responding to tapes, with group discussion interspersed. In summary, some centers are using one or two sets of commercial materials, in addition to any free sources which can be obtained. Some centers are using only the EDI materials, and a few centers have written an entire curriculum including individual workbooks developed by the instructor which list a variety of tasks the students must perform to complete the course. All centers have expressed the need for more useful, relevant, and effective materials.

## Recommendations

The World of Work conference provided instructors with a variety of sources of curricula and information, so that centers which have only been using one set of commercial materials can investigate other options. The conference also pointed out the need for a more unified program in which those goals stated in the conference reports are adequately addressed. In order to ensure that any program revision encompasses these goals, we need to perform the following:

• Develop a list of behavioral learning objectives for the World of Work course. This could best be accomplished by a small task force

of teachers and consultants. Many instructors at centers do not have lists of behavioral objectives available for our review at the present time. The Adkins model and the 3M Contempo Lab model do have written performance objectives which would help us in developing the list.

- Develop an evaluation instrument to measure the learning that has taken place in the World of Work program.
- Develop revised program/guidelines in keeping with the list of goals and objectives. These guidelines could be incorporated into a new program manual. They would include suggested course content and methods. These guidelines are needed to help provide direction for strengthening and revising the program so that we can expand the role of the student and to move the corpsmember from a relatively passive learning situation to one requiring more student involvement.

We recommend that these steps be taken if program revision is to occur.

## ATTACHMENT 1

PARTIAL LISTING OF SUPPLEMENTAL PRINT AND AUDIOVISUAL MATERIALS USED IN THE WORLD OF WORK PROGRAM

Eye Gate House 146-01 Archer Avenue Jamaica, New York 11435

FORMAT: Filmstrips, cassettes, and review questions.

CONTENT: The job interview and application process; consumer topics;

labor unions

A few centers are using this material. It is useful for corpsmembers on a low reading level. Although some minorities are depicted, the presentation is more geared toward the middle class.

innovative Sciences, Inc. 300 Broad Street Stamford, Connecticut 06901

FORMAT: Workbooks with fill-in-the blank questions and quiz/

activity sheets; cassette tapes

CONTENT: Finding and keeping a job; job attitudes

This material is in use at one or two centers. Reading level is approximately sixth grade. Fill-in-the blank material needs to be reinforced by other instructional methods. Useful for corpsmembers who do not have reading difficulty.

Guidance Associates 757 Third Avenue New York, New York 10017

FORMAT: Filmstrips with either records or audio cassettes

CONTENT: Getting and keeping a job, including the job interview

and applying for the job; consumer topics

This material contains no method of evaluating what the student has absorbed. It should only be used for the purpose of introduction or review.

Many centers are using these materials.

Mafex Associates, Inc.
 90 Cherry Street
 Box 519
 Johnstown, PA 15907

FORMAT: Textbooks, some of which contain duplicating masters.

CONTENT: Completion of application forms (for the job, for bank loans, for credit cards).

Most of this material is on a low reading level (4th grade and below) and would be useful for corpsmembers with reading problems. Only one center was known to be using this material at the time of the conference.

Singer Job Survival Kit

FORMAT: Filmstrips and audio cassettes, student workbooks

CONTENT: Finding, getting, and keeping a job

This material is more suitable for students on a sixth grade level or above.

Some Singer centers are making use of this material.

Media Materials, Inc. 2936 Remington Avenue Baltimore, Maryland 21211

FORMAT: Student workbooks and 111 ustrations.

CONTENT: Job, orientation materials obtaining information

and understanding terminology

These materials are useful for the pre-reader and the beginning reader. At the time of the conference, only one center was known to be using these materials.

• Educator's Guide to Free Films Educator's Progress Service, Inc. Randolph, Wisconsin 53956

request a film and use it for a temporary time period, with the only cost being that of return postage. The films may also be purchased.

Few people at the conference were using this resource.

### JOB CORPS WORLD OF WORK CURRICULUM NEEDS ASSESSMENT AND RECOMMENDATIONS FOR CURRICULUM, MODIFICATION

### GENERAL PROGRAM GOALS AND RECOMMENDATIONS

From December 12 to December 14, 1978, the national office of Job Corps hosted a conference for experienced World of Work (WOW) instructors from selected Job Corps centers. This conference as facilitated by TEAM Associates, Inc., was designed to enable the participants to review the existing WOW curriculum, assess the need for program revision, and make specific recommendations for curriculum modification. The proceedings of that conference are described in greater detail in a separate report. This introduction will summarize the findings and recommendations of that conference, as they indicate the possible directions for WOW curriculum development.

These stindings and recommendations are as follows:

A. The WOW program should not only be concerned with the development of skills, but also with the development of the values, attitudes, and abilities which underlie "employability." Employability may generally be defined as being able to find, get, and keep a job. It requires an accurate and realistic knowledge of the expectations of potential employers, a willingness to meet those expectations, and the skills and abilities needed to do so. These are complex goals, requiring changes

in awareness, understanding, knowledge, and behavior. The objectives of the program should address this complexity, and the curriculum should provide instruction in all of these areas in a single comprehensive design.

The program should be <u>practical</u>, in that the corpsmembers should be able to apply their learning to any work situation and to generalize it to new situations. It should emphasize the activity of the individual corpsmember and require each corpsmember to actually perform the activities intended to demonstrate the desired learning.

The program should be <u>realistic</u>, in that it helps the corpsmember to develop accurate perceptions of the world of work and of the skills and abilities needed to survive in it. In general, the needs of "employability" are far more complex than is recognized by the existing programs, and the program should be changed as needed.

The program should be designed to assist each corpsmember in developing a specific plan for personal and career development. Each corpsmember should develop such a plan, which would include defining one's personal goals, assessing one's strengths and previous experiences in relation to these goals, determining the additional resources needed to achieve them, defining alternative strategies and selecting the most appropriate ones, and revising the original plan in response to the learning gained from acting to carry out the plan. No corpsmember should complete a Job Corps program without learning these essential skills.

- The MOW program should have a more significant role in the total center program, equal to the Basic Education and Vocational Training programs. At present, these programs are designed primarily to teach skills; the development of appropriate values and attitudes is a secondary program objective in both of these areas, but no instructional mechanism for such learning is now built into these programs. Neither are these programs designed to teach transferable skills in goal-setting, planning, and decision-making which can be used in any work situation. The WOW program should address these areas primarily, and in that way provide a third fundamental base for the entire center program. Therefore, the WOW program should be an ongoing part of a corpsmember's program, throughout the entire stay at the center.
- D. The WOW program should be <u>integrated with other program areas</u> such as orientation, basic education, vocational training, counseling, residential living, and placement. The personal and career development plan developed by an individual corpsmember in the WOW program could be a reference point for staff decisions in each of these program areas. Plans made in NOW could be complemented by specific skills instruction and vocational and personal counseling in other areas, and resource materials drawn from these areas could be used in WOW.
- E. The program should provide opportunities for social interaction which would be a basis for evaluating learning and functional

group work, and the group should include many more activities requiring group work, and the group should assist each individual in personal and career development. The present Basic Education and Vocational Training programs emphasize individualized instruction; this often results in the isolation of each individual in the learning environment. This could be one reason for the high turnover of corpsmembers in their first thirty days at the center.

The WOW program could attack this problem by providing a strong support group which meets on a regular basis to assist each individual in defining, sharing, and working toward goals and in providing affirmation and support in a structured setting. Presently this kind of support is developed primarily through the residential living program, but this program does not provide specific instruction in the relevant skills.

### II. NEEDS ASSESSMENT ...

Participants at the conference discussed the strengths and weaknesses of the current program and identified major areas of concern. The conference group conclusions reinforce the inferences made in the "Evaluation Study of Job Corps World of Work Curriculum," a paper submitted to the National Office of Job Corps by TEAM Associates, Inc., on October 12, 1978.

Following is a further description of areas of concern shared by conference participants. All of the items indicate a need for program revision. Any modification should follow the guidelines set forth at

the beginning of this report.

Need for Expanded World of Work Model

The present World of Work curriculum is run on audiotapes. At the completion of each tape, the student answers workbook questions. Some group discussion may follow. As the current course is designed, there is no definitive application phase, during which students are required to demonstrate competency in each specific area. Some instructors, having seen the crucial importance of this stage in the learning process, have built in this phase using a variety of materials and techniques.

However, under the current structure, the student is a relatively passive learner. We need to move from thinking of the World of Work course as a curriculum which can be taught and learned at a desk, to the concept of a much broader based program in which the student's role is expanded from that of a passive receiver to an active explorer and learner. Students need more contact with the actual world of work. The program and the learning can no longer be confined to the limits of the classroom. In summary, at present, many corpsmembers find the program "dull and boring" in the terms of conference participants. A mechanistic program of audiotapes is imposed on the students; and corpsmembers receive very little reinforcement from instructors or other students. At some centers, the course is extremely short. If the program is designed to induce behavioral change and skill development, time needs to be allotted to ensure that the objectives are met.

Finally, and perhaps most importantly, at present there is no written standard of assessment stating what corpsmembers should be able to do as a result of the learning; instructors have made arbitrary decisions regarding performance standards. Some objective setting was done at the conference; however, as was recommended in the "Evaluation Study of Job Corps World of Work Curriculum," a task force needs to be chosen to determine performance objectives for this course so that the program can be adequately evaluated.

In summary, the conference participants felt that WOW could fill a primary need that is not adequately addressed now in the Job Corps program—the need to provide a structural instructional program in which corpsmembers could learn and practice the intellectual and social skills and abilities to become "employable." This would include developing a personal plan for career development and a strongly supportive social context in which to test it. It would provide a focus and direction for the total center program which is presently lacking.

The existing WOW program cannot meet these needs. It is a relatively short-term instructional program with limited content and goals, in which the student's participation is mostly passive and performance is measured by pencil-and-paper tests. Individual centers have developed supplementary WOW instruction which is often excellent, but Job Corps

has not provided a comprehensive program model aimed at the goals described above.

In summary, the conference participants felt that the World of Work could fill a primary need that is not adequately addressed in the Job Corps program at present—the need to provide a structural instructional program in which corpsmembers could learn and practice the intellectual and social skills and abilities to become "employable." This would include developing a personal plan for career development and a strongly supportive social context in which to test it. It would provide a focus and direction for the total center program which is presently lacking.

The existing World of Work program cannot meet these needs. It is a relatively short-term instructional program with limited content and goals, in which the student's participation is mostly passive and performance is measured by pencil-and-paper tests. Individual centers have developed supplementary World of Work instruction which is often excellent, but Job Corps has not provided a comprehensive program model aimed at the goals described above.



# RECOMMENDATIONS FOR CURRICULUM MODIFICATION

TEAM Associates, Inc., was contracted by the National Office of Job Corps, Employment and Training Administration, Department of Labor, to conduct a search and evaluation of curricula which would be suitable for use in the World of Work Program. As a result of the review, TEAM Associates will recommend certain programs for pilottesting at selected Job Corps centers. The present World of Work curriculum is relatively new; it was instituted in Job Corps in Its general goal is to help prepare corpsmembers to enter the labor market and to remain gainfully employed, productive citizens. The course currently focuses on skills and attitudes which the corpsmember needs to develop in order to function as a worker. As with any program, revisions and updates are necessary. Much new material in the "World of Work" area has been published in the last three years. This study was undertaken in order to keep abreast of new developments and to choose the most effective curricula for use in the Job Corps Program. Several programs were reviewed in detail; it is hoped that highly recommended programs will be pilot-tested for possible inclusion into the course and that, in the interim, further study will be performed on the structure of the course itself in order to ensure that students are provided with the best possible educational experience.

search and review of World of Work carricula. First, TEAM Associates performed a needs assessment which heaped identify problem areas in the current program. This part of the research was carried out by talking with Job Corps center World of Work instructors and with Job Corps consultants. The preliminary diagnostic information provided, a basis for the next step in the research, establishing criteria for materials evaluation. TEAM Associates adapted an instructional materials evaluation form for disadvantaged students developed by the University of Maryland Vocational Curriculum Research and Development Center. This form contains pertinent criteria as established during the needs assessment. The following general criteria provide guidelines for choosing program materials and are major concerns addressed in this review of curricula:

## 1. Material Format

- o Does the material have a stated purpose?
- o Is the purpose relevant to the World of Work course?
- o Is the material suitable for individual instruction?
- o Does the material contain performance objectives and criterion-referenced measures so that program evaluation is built into the system?

As a result of an examination of the present program, TEAM Associates found ample evidence to support the concept of the World of Work Program. The planning and implementation phases of this program, however require further examination and modification. More specifically, the areas of concern are as follows: (1) which lack of clear performance objectives and criterion-referenced measures (tasks which the student performs to demonstrate his degree of competency) and (2) the lack of follow-up and reinforcement of learning.

First, the essence of the World of Work Program, as it exists now, is to aid the corpsmember in developing skills, attitudes, and behaviors which will enable him to get and keep a job and to function as a productive member of society. One focus of the program is on the job search and the other is on consumer skills. In both of these areas, present World of Work materials, in addition to many materials reviewed, are consistently lacking in written performance objectives and criterion-referenced measures. For example, in the present consumer education series, students may choose any two tapes from each section and complete the course. The following questions arise when evaluating the World of Work materials, and these certainly must be addressed prior to the development of a comprehensive, well-integrated program. Is there not a core of knowledge which Job Corps students should have upon completion of the World of Work course? Should not this core of knowledge and skills be



spelled out in clearly defined objectives, with activities designed to meet those objectives? These questions further emphasize the responsibility of Job Corps program developers to determine: (1) what students need to learn, and (2) how this learning will be measured. Materials selection should not occur before these critical steps, but afterwards. Within the present World of Work curriculum, there are few written behavioral objectives. This is possibly due to the fact that the program is individualized. The single student cannot demonstrate on his own that he can handle questions posed during a Job interview, for example. Thus, at present, a typical student listens to tapes on such a topic and perhaps participates in a group discussion.

This situation brings—us—to our second concern: the lack of reinforcement and evaluation measures of the learning. A World of Work curriculum requires a great deal of actual "hands-on" application to assure that new skills are reinforced and maintained. Instructors must be highly creative and resourceful in their presentation of World of Work subject matter.

At present, little evaluation is being carried out because of the lack of measurable objectives and lack of reinforcement techniques. If students sense that they do not have to be responsible for what they

have listened to or read or seen, the learning process will lack both learner and instructor accountability. Too, when students enter the World of Work course, much of what they learn will not be applied immediately. Unless students actively use this knowledge, much:of: it is forgotten. For example, a student can complete a workbook on buying a used care but it is questionable as to how much knowledge has been retained six weeks or three months later. To reinforce classroom instruction, the student could visit a used car lot, putting into practice what he has learned to look for. In other words, World of Work students must have some type of built-in reinforcement to the classroom learning process. This reinforcement may be a written or oral activity or a simulation; in any case, it should be designed to measure what the student has learned. World of Work students must be given a chance to practice skills and behaviors they have learned, just as they do in vocational courses. Much of the present course is presented through audio-visual materials. The important consideration which should be taken into account when using cassettes and/or filmstrips concerns the type of follow-up treatment the individual receives. Follow-up after an audio-visual presentation is critical to the learning process. In too many instances in programs that are mainly audio-visual in nature. there is no structured process of reinforcement.

During a follow-up, the student should be asked to demonstrate, in some manner, knowledge of the content. This can be accomplished in one of

If the student can read and write comfortably on a several ways. fourth to fifth grade level, a written "fill-in-the-blank" follow-up might be appropriate for skills requiring writing, for example, the completion of an application form. If the student cannot read on a basic level, tapes which assess comprehension can be used. Blank tapes on which students record their responses would be a possibility. A small group discussion or a conference with the instructor at which specific knowledge is demonstrated would be appropriate. One of the most effective teaching/learning strategies for this content area may well be simulation. The opportunity to experience a job interview in a protected environment and to receive a critique from which to learn and refine those skills can be invaluable. Selected employers could be brought in to participate in and/or critique the simulations. Simulations could also be performed in other content areas, such as maintaining a job.

The teacher, then, must function not only as a monitor, seeing that assignments have been covered, but also as planner and designer of meaningful realistic experiences and contacts which bring students closer to the world of their future employers. Corpsmember aides might be used to monitor individual progress and to help with the more routine tasks, so that the instructor is free to do more planning for each student.

But more than this, the instructor must have specific guidelines on what skills and behaviors the corpsmember should exhibit as a result of the learning process. Once these guidelines are established, teachers and consultants can formulate tasks which must be completed at a given level to show satisfactory performance.

New materials chosen for the World of Work Program should be contingent upon the further structuring and redefining of the content of this course. However, materials have been reviewed and those which meet the general criteria are included in this summation. Following is a general description of some available programs we would recommend for use with Job Corps students. It must be stressed that this is not an exhaustive listing; it is a preliminary list of materials that would be suitable for the corpsmember population.

# Curriculum Materials

Janus Publishers produces some excellent low reading level/high interest material which should be considered for pilot-testing (see evaluations in appendix A). These materials concerning the job search and certain "survival skills" were specifically designed for students with learning problems. The readability level of these materials averages to the 2.5 level on the Spache scale. At the same time, the curricula is written to to appeal to adolescents and young adults; it is presented in a clear and direct yet simple manner. The illustrations and photographs are well done;



they are up-to-date; include many minorities, and show many young people "on the job." The illustrations also relate closely to the text. In addition, the material would be suitable for individualized instruction, even for students with very poor reading skills. At the same time, it provides a basis from which teachers can improvise and design supplemental activities including field trips, demonstrations, simulations, and selected guest employers who could provide critiques. The curriculum includes simple and effective material on goal setting and decision-making, the job application and interview process, appropriate and inappropriate behaviors and attitudes on the job, in addition to survival skills which are job related: reading schedules and signs, buying a used car, and using the want ads. All of this material could be used by corpsmembers.

One drawback of this set, like others, is that specific performance objectives have not been identified. It is true that the materials must be modified to suit the system. But the lack of sequential objectives points out the need for instructors and consultants to identify measureable objectives and derise evaluation procedures to ensure teacher and student accountability. The Janus materials do contain activities and question and answer sections in the booklets which can be used as evaluation measures. It is highly recommended that measures which rely on student follow-up activity be included as a basic part of World of Work training, as a supplement and reinforcement to fill-in-the-blank questions.

Some of these activities are suggested in the teacher's guide of the Janus materials, but instructors must utilize resources creatively and must keep the objective clearly in mind in order to devise evaluation measures for student activities.

In addition, the Follett Publishing Company has published a "coping skills" consumer education series which focuses on the knowledge and skills necessary to cope with daily life in our society. The series consists of workbooks designed for slow learners. Follett has organized its texts based on research from the Adult Performance Level Study performed through the University of Texas. The research team identified the basic areas of knowledge and the skills needed to function in modern society. Follett has developed a series of workbooks designed to provide the slow students with some of these skills. The workbooks are well structured. Each lesson includes important vocabulary items for that topic and fact/comprehension questions at the end. These books might be more useful in the reading portion of the Basic Education Program. Illustrations are limited. An audio-visual approach to this material, combined with other written supplements, would probably work better.

Too, Fearon Publishers has designed a series which could be of use in a World of Work and/or Occupational Exploration Program. The "Job Box" contains 70 short book ets which describe a wide variety of entry-level jobs. Each has a worksheet that reinforces comprehension and helps the

maker has just begun a "Vocational Readers" Program, a series of ten books designed to familiarize very slow learners with occupational choices. These could be used with the slower corpsmembers; they would probably be more applicable as a supplement to the Basic Education Reading Program and should be considered for use in that program.

In addition, the Singer Education Division has developed several career guidance and survival skills programs which are in use at Singer-operated Job Corps centers. These programs were not available for review and evaluation by TEAM Associates, although descriptive brochures were obtained.

Singer has a multi-media "Job Survival Skills" Program to train students in appropriate job-related behaviors. The program is advertised as a 25-hour course structured in terms of definable objectives. Singer has also developed an outstanding "Vocational Evaluation System" that assesses student ability and provides an occupational exploration experience for the student. The system simulates a work setting and contains student activities that can be measured and evaluated against standardized norms. Most Job Corps contractors are aware of this program as it exists now.

In summary, there are many materials on the market in the area of career guidance and some available which focus on survival skills. Few good

programs that were reviewed, the Janus materials stand out as being exceptionally well designed and highly motivational. These materials are recommended as possibly being highly useful to teachers and students at Job Corps centers. In addition, Fearon and the Frank E. Richards Co., other publishers in tune with the needs of slow learners, are developing more material for this type of student.

This study has pointed out the need for a further definition of World of Work course content so that: (1) performance objectives and (2) adequate evaluation measures can be developed. Ideally, consultants and teachers could work jointly to redefine the objectives of the course and to structure it according to those objectives, building in evaluation measures or suggesting acceptable evaluation measures. This program development process should take place prior to selecting materials for inclusion into the program. With the addition of a structured system of accountability, the World of Work Program should be even more effective in preparing students for employment. In summary, as a result of the World of Work study, our recommendations include the following steps:

- A task force of teachers and consultants could work together to provide a coherent set of course objectives for the World of Work program.
- Before materials are chosen for the program, consul
  tants and teachers should make sure that the

  curricula also contain criterion-referenced measures.

These are needed to ensure that the student is called upon to demonstrate his learning, so that he or she (and the program itself) can be adequately evaluated.

Selected materials which meet these criteria could be pilottested at centers.

In general, Job Corps should consider developing the World of Work program into a larger and more significant role in the total educational program. Job Corps presently does not keep records of graduates' work histories beyond initial placement. Such long-term investigations would probably indicate that corpsmember graduates do not stay long in these initial placements, for most American workers change jobs at least once every three years, and workers in lower-level occupations more frequently than that. Siven that fact, the skills developed by an adequate World of Work program may be as essential for survival in a mobile society as the specific knowledge provided by basic education and vocational training program. An adequate World of Work program should provide each corpsmember with the skills magessary to make realistic occupational goals and plans, to locate job opportunities, to present oneself to advantage at an interview, to observe correct personal conduct on the job, and to know which steps to take when a job ends. Many of these needs are handled for the corpsmember by the placement office prior to the initial placement, but how many corpsmembers are prepared to do the same for themselves? Yet it is very likely that they will have to do many times throughout their working lives. Many publications and training programs have been developed to assist middle-class professionals in

developing such "survival skills." However, such assistance is not generally provided for non-professional workers. The Janus Press materials, specifically units 6 through 8 of the Janus Job Planner, provide a good basis for developing such a program in life/work planning and job-changing skills. More curriculum development is needed in these areas, however, and Job Corps is uniquely situated to provide it.

NEW POLICY CONCERNING
JOB CORPS PAY AND ALLOWANCES

FEBRUARY 1979

OFFICE OF YOUTH PROGRAMS REPORT NUMBER 14



#### OVERVIEW

Job Corps pays monthly allowances to corpsmembers from which they are expected to provide personal items as well as recreation costs. A readjustment allowance is also provided upon termination based upon satisfactory performance. These allowances were established by the original Job Corps legislation. The maximum personal allowance was \$35 per nonth for the first six months and \$50 thereafter. The readjustment allowance could not exceed \$50 for each month of participation. These legislative allowances were unchanged for nearly 15 years during which the cost of living more than The reauthorization of the Comprehensive Employment and Training Act in 1978 raised the maximum living allowance to \$60 in the first six months and \$100 thereafter. The maximum readjusted readjusted allowance was established as \$100 per month.

Allowances serve several purposes, and the allowance policy within the legislation maximums must consider these purposes:

- 1. Minimal personal needs must be met as well as those of readjustment.
- 2. Entry level allowances are an inducement to recruiting.
- 3. Steeper allowance gradients based on duration of stay may promote retention.
- 4. Flexibility to reward exemplary performance can be used as an incentive.

There are tradeoffs between those goals and there is an overall concern with cost. In order to determine the most balanced policy consistent with budget concerns, a committee of Job Corps experts was established. This report contains its recommendations as well as underlying cost estimates.

ROBERT TAGGART
Administrator
Office of Youth Programs



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The CETA legislation of 1978 provides for new, higher limits governing payments to corpsmembers in, among others, living allowances and readjustment allowances. Living allowances pertains to the money paid to corpsmembers while they are actually in training at a Job Corps Center, and are commonly referred to as "wages". The readjustment allowance is a lump sum of money paid to qualifying corpsmembers (based upon a minimum length of time spent in training) upon termination from the program, and its use is intended as a "grubstake" to get an enrollee started in his/her new life. Downpayments on automobiles, purchases of work clothes, or security deposits on apartments are frequent uses of this money.

These new, higher limits are the first changes permitted with these allowances since Job Corps' inception in 1964, although the purchasing power of the 1964 dollar has fallen to forty-eight cents.

The new legislation establishes a maximum of \$60 per month living allowance for the first six months and a maximum of \$100 per month thereafter. For readjustment allowances, a maximum of \$100 per month may be placed in an escrow account to be paid to enrollees staying at least 90 days, upon termination.

final fiscal policy determined by Job Corps could take several forms, any one of which would probably be endorsed by one interest group and condemned by others. The group concerned with recruitment, for example, would prefer to see maximum amounts paid so as to make the program more attractive to prospective corpsmembers. Center Directors, in a middle-ground approach, may wish to have more latitude so that increases in pay may be granted for exceptional performance and demonstrated leadership capabilities. The legislation in fact specifies that increases are to be granted "to encourage continued participation and recognize merit performance", thus endorsed by the latter opinion.

It was determined, therefore, that to begin development of Job Corps policy as it pertains to living and readjustment allowances, the widest practical range of interested and affected groups should be consulted. A nationwide representation was gathered in Washington on October 24-25, 1978. A roster of the conferees is appended showing representation for recruitment agencies, center directors, Departments of Agriculture and Interior, regional and national staff, and personnel from Army Finance Center in Indianapolis (which operates the Job Corps allowance system through interagency agreement).

ference. Also contained in the following pages are (1) charts which depict this proposed policy graphically (Figures A, B, C), and (2) a projection of FY1979 and FY1980 cost increases resulting from the policy as described herein.

It should be noted that the cost projections were developed after the conference, include others estimates which were not discussed at the conference, were predicated on an implementation date of April 1, 1979, and reflect the current plans for Job Corps build-up to an eventual steady state level of 44,000 corpsmembers. Hence, the additional amount needed for FY1979 is a relatively modest \$16 million compared to \$38 million for FY1980.

| Living and Re | eadjustment Al                   | llowances                             | .\$37.3 | million |
|---------------|----------------------------------|---------------------------------------|---------|---------|
| Allotments    | -<br>• • • • • • • • • • • • • • | · · · · · · · · · · · · · · · · · · · | 4       | million |
| Total         | ę                                |                                       | \$37.7  | million |

This amount is approximately 87 percent increase over the current cost per man/year and does not include clothing allowances.

# STUDY COMMITTEE REPORT

A Study Committee composed of representatives from Job Corps centers (both contract and Agency operated), recruitment agencies, the Army Finance Center, and regional and national offices met on October 24-25, 1978, to consider various options for bringing the Job Corps' allowance system into line with revised legislation (sec. 458). The policy recommended below for living and readjustment allowances is responsive to the legislative requirement for incremental increases. It has the further advantages of tying increases in allowances to critical drop-out periods, giving center directors a more viable financial incentive to use in encouraging increased length of stay, and recognizing exceptional work and leadership qualities,

LIVING ALLOWANCES (sec. 458(a)) (See Figure A)

### Policy

Automatic initial allowance and increases:

0 - 60 days in active pay status: \$40.00 per month, 61 - 180 days in active pay status: \$60.00 per month over 180 days in active pay status: \$80.00 per month

The center director would have the option to deny an automatic increase on the basis of good cause for a maximum of two months for the initial increase to \$60 and for a maximum of three months for the second increase to \$80. No corpsmembers would remain on center for more than four months at less than \$60 or more than nine months at less than \$80.

The additional \$20 living allowance (the difference between \$80 and the maximum \$100) provided for by the Act would be given incrementally at the discretion of the center director for exceptional accomplishments and demonstrated leadership ability. No center may have more than 30% of its total enrollment at the \$100 level.



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Thirty dollars has been the initial living allowance level for 14 years. The new initial level of forty dollars provides an increase over the present level and yet allows subsequent increases which are visible in corpsmember paychecks.

After sixty days! enrollment, a virtually automatic increase to the maximum \$60 level occurs. The sixty-day point was chosen for several reasons:

- . It allows sufficient time for orientation to center life and for training in personal "money management".
- It addresses the 30-day and 90-day termination patterns, providing inducement to remain past the critical first 30 days and provides the maximum allowable amount at and after the 90-day point.
- . It meshes with the centers' system for evaluation of corpsmember progress, which is scheduled to occur around the 45th day of enrollment. This process identifies the small number of enrollees whose performance is inadequate, and results in deferring their increases up to 60 additional days.

After 180 days, a second increase occurs, to \$80; as with the first, the raise may be deferred by the center director for unsatisfactory performance for up to three additional months. The six-month point is the earliest that the living allowance may rise above \$60, according to legislation. Enrollees also qualify for home leave after six months, and the timing of the increase to \$80 results in a larger paycheck when they return from leave. The increase also provides inducement to complete a vocational training program in full instead of exiting at a partial, step-off level. To maximize the inducement, eligibility for higher readjustment allowance levels occurs at the same time (see discussion of readjustment allowances, below).

There are provisions for two merit raises, to \$90 and \$100 (the statutory maximum), after six months' enrollment. These increases are not automatic, but are initiated by center directors to recognize noteworthy achievement and demonstrated leadership.

The proposed living allowance schedule was developed to enhance

enrolles retention, in keeping with the legislation; as well all to provide enrolless with more adequate funds for their personal needs. The system of virtually automatic increases and a total of four allowance levels will reduce the amount of paperwork required by centers to administer the system to one-half or less the amount currently required, as well as reduce the paperwork processing at Army Finance Center. The standardized procedures will result in uniformity of allowance levels from center to center and region to region. The provision for denial of the automatic increases is designed to give the center director and center staff time to work with enrollees performing unsatisfactorily, and adheres to the legislative requirement for penalties as well as rewards in the allowance system. The proposed living allowance schedule will be easier for Job Corps recruiters to explain to applicants, and Job Corps enrollees will have a clearer understanding of what to expect and when.

## READJUSTMENT ALLOWANCES (sec. 458(c)) (See Figures B, C)

### Policy

0 - 180 days in pay status: \$75 per month accrual 181 - 270 days in pay status: \$75 per month accrual

first six months;

\$100 per month accrual for each succeeding month.

271 - termination

\$100 per month accrual for total period of enrollment in pay status.

#### Rationale

The center is hereby given an additional motivational tool, tied to an automatic living allowance increase, to keep the corpsmember after the critical 180-day dropout period.

There is additional incentive for corpsmembers to remain for at least nine months, and most corpsmembers require nine months or more to get their GED's and complete a vocational training program.

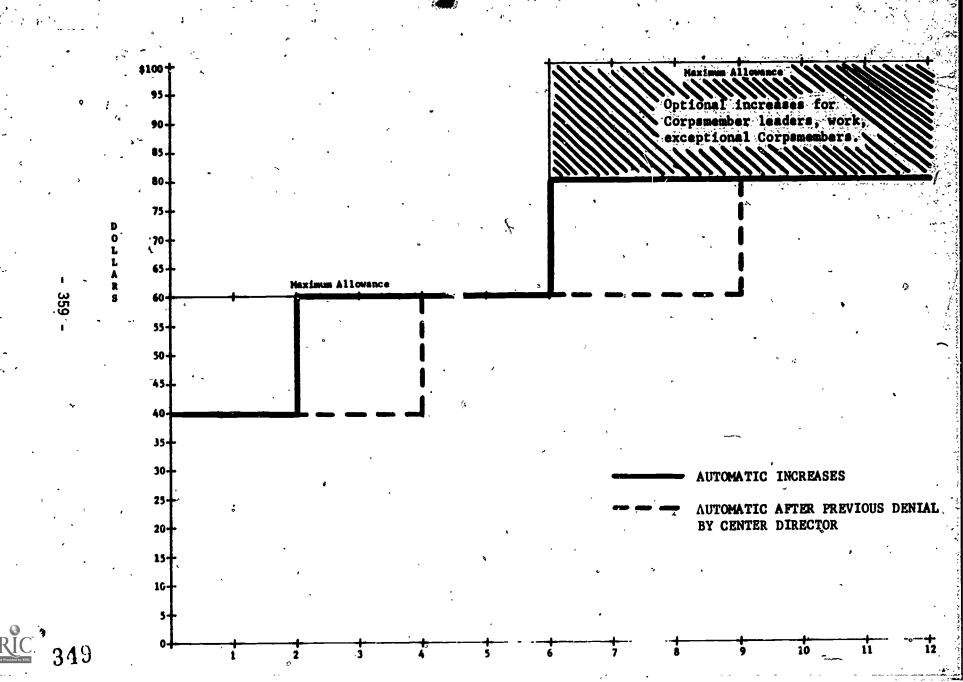
Although the legislation states that enrollees must stay "at least



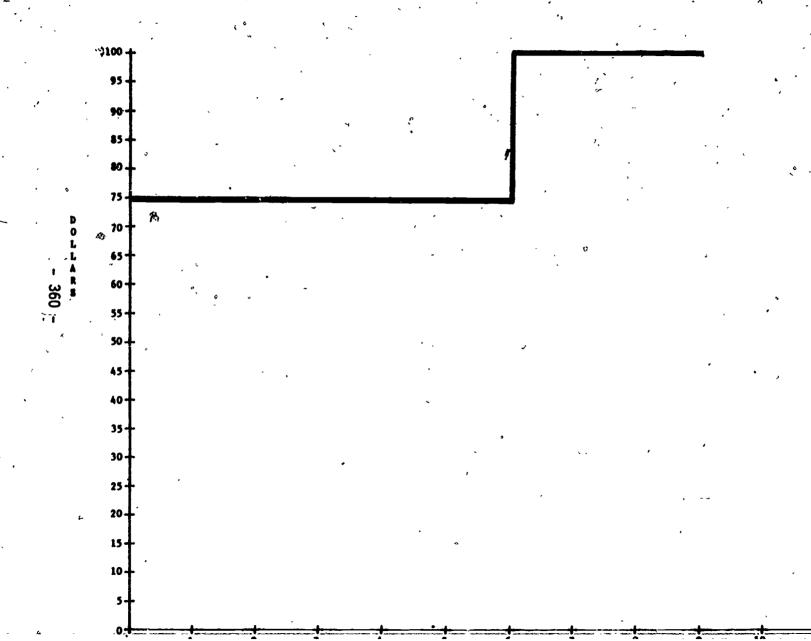
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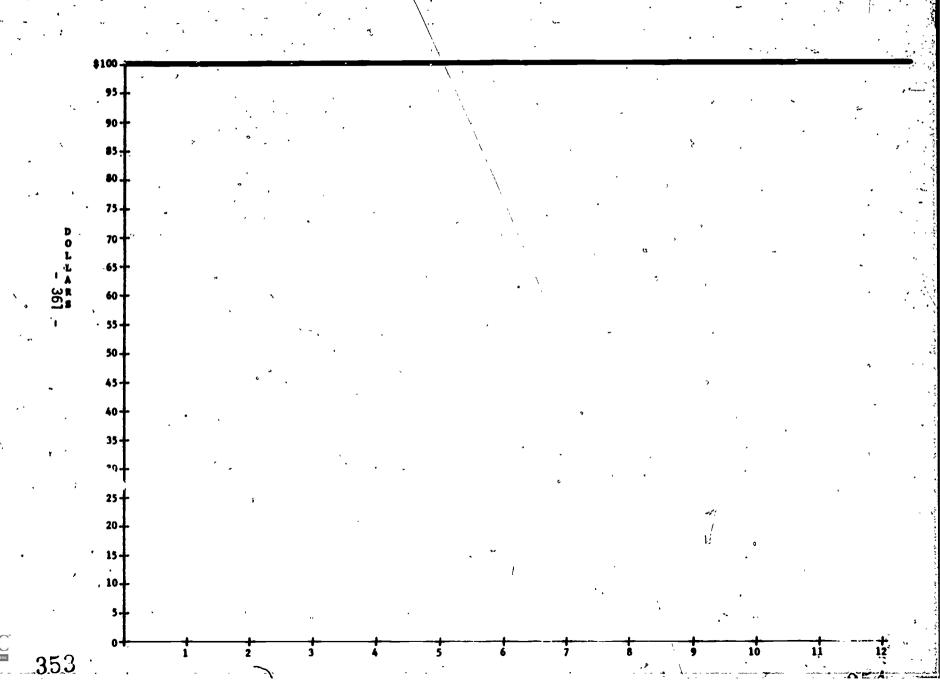
90 days" to be eligible for readjustment allowance, all corpsmembers will be eligible after 180 days except those who have completed their program in less than 180 days, but not sooner than the legislated 90 days. (Current eligibility rules apply for medical discharges, deaths, armed service placements and maximum benefits completers.) The computation of the readjustment allowances will, for all terminees, be according to the policy stated above. For example, a program completer staying eight months would be entitled to (\$75 X 6) + (\$100 X 2) = \$650. This would be a gross amount, subject to FICA and withholding tax. Similarly, an enrollee staying ten months would be entitled to \$100 X 10 = \$1,000 gross, less FICA and withholding tax. (These two examples, shown together, present a strong argument for an eight-month enrollee to stay an extra two months to complete; just in readjustment allowance alone, the corpsmember benefits by an additional \$350.)

# JOB CORPS LIVING ALLOWANCE PROPOSED POLICY



# READJUSTMENT ALLOWANCE ACCUMULATION RATE FOR FIRST NINE MONTHS





- 1. Estimate of Costs per Man/Year
  - a. <u>Living Allowance</u>: Based on the following assumed distribution of enrollees by pay level:
    - \$ 40/mo. 30% \$ 60/mo. 30% \$ 20/mo. 10% \$ 90/mo. 10% \$100/mo. 10%

Average = \$67/mo., or 804 per man/year, plus FICA (5.75%): 46 " Cost per man/year (total): \$850 per man/year

b. Readjustment Allowance. Based on the assumed distribution given above plus actual FY 1978 data, yielding the following assumed terminee distribution:

|                         | ` `    |            |               |                  | _           |
|-------------------------|--------|------------|---------------|------------------|-------------|
| Termineé                | . % of | Est. FY'78 | ~ Avg. Length |                  |             |
| Group '                 | Total  | Number     | of Stay       | Current          | Proposed    |
| 180 + day Terminees     | 40.0   | 19,280     | 11.5 mo.      | \$11,086,000     | 20,605,500* |
| 90 - 179 day Completers |        | 1,350      | 4.5           | 303,750          | ~ 455,625   |
| Medical Discharge       | 0.9    | 435        | 3.0.          | 65,250           | 97,875      |
| (Under 6 mo.)           |        |            |               |                  | •           |
| TOTALS                  | 43.7   | 21,065     |               | \$11,455,000     | 21,159,00C  |
| Man/Year Average        |        | •          |               | 500              | 924         |
| plus FICA (5.75%)       |        | ٥          | •             | <u>29</u><br>529 | 53          |
| Total Man/Year Average  |        |            |               | 529              | 977         |

<sup>\*</sup> Based on 15% (7,230) staying 6-8 months (average = 7.5), and 25% (12,050) staying over 9 months (average = 13.5 months).

2. Estimated Impact on FY 1979 and FY 1980.

#### a. FY 1979

- (1) Assumed FY 1979 Mari-Years: 34,450 First Half FY 79: 15,094 Second Half FY 79: 19,356
- (2) Assumed implementation date for new pay levels: April 1, 1979.
- (3) Cost estimates:
  - (a) First Half, FY 1979 at current levels
     (FY 78 Living Allowance: \$9,771,635 total, per
     Finance Center report, for 22,893 man/years =
     \$427 man/year, plus 5.75% FICA employer's contribution,
     = \$451 per man/year.)
     (FY 78 Readjustment Allowance: estimated to be
     \$529 per man/year in para. lb, above.)

15,094 man/years x 451: \$6,807,394 (Living) " x 529: 7,984,726 (Readjustment) Total First Half \$14,792,120

(b) Second Half

19,356 man/years x 850: \$16,452,600 (Living)
" x 977: 18,910,812 (Readjustment)
Total Second Half \$35,363,412

(c) Total FY1979 estimate:\$50,155,532 (FY1979 at old levels): 33,761,000 Additional required 16,394,532

b. FY 1980 Requirements (for 44,000 man/years):

44,000 man/years x 850: 37,400,000 (Living)
" " x 977: 42,988,000 (Readjustment)
Total required: 80,388,000

Total required: 80,388,000 (FY1980 at old levels): 43,120,000

(FY1980 at old levels): 43,120,000
Additional required 37,268,000 (86.4% increase over old levels)

3. Allotments. In FY 1978 the total government portion of allotments was \$194,464 (\$8.50 per man-year). Under the new pay policy the allotment levels will be doubled.

a. FY 1979

b. FY 1980: 44,000 man/years x 17.00: 748,000 (FY 1980 at old level: 374,000)
Additional required 374,000

Note: These estimates assume the same eligibility criteria as currently apply.

Although allotments were not discussed at the October 24-25 conference, the following information is presented for the reader's use because of the potential magnitude of the issue.

Section 458(d) provides that such portion of the readjustment allowance as prescribed by the Secretary may be paid monthly during the period of service of the enrollee directly to a spouse or child of the enrollee, OR TO ANY RELATIVE WHO DRAWS SUBSTANTIAL SUPPORT FROM THE ENROLLEE, and any amount so paid shall be supplemented by the payment of an equal amount by the Secretary.

This language is essentially the same as it has been legislated historically. The amount prescribed by the Secretary has been up to \$25, matched by an equal amount. However, in late 1967, Job Corps policy was made more restrictive by removing from eligibility the ANY OTHER RELATIVE language capitalized above. The effect of allotment participation is shown in Figure D, following.

The cost estimates shown above assume this same restrictive posture even though the new legislation allows liberalizing. A projection of cost impact of such liberalization follows:

## ESTIMATED ALLOTMENT COSTS UNDER LIBERAL ELIGIBILITY RULES:

- 1. Proportion of Enrollees Taking Allotments
  - a. Current (limited to spouse and children):
  - b. Estimated proportion liberal eligibility

(based on 1965-68 experience):

- (1) Second half, FY1979:
- (2) FY1980:
- 75

3.2% (9/78)

- 2. Allotment Level Distributions
  - a. Current (9/78):

\$10/month:

1.4 % 20/month:

30/month: 1.7 %

1.5 % 40/month:

50/month: 95.4 %

100.0 %

Monthly Average = \$49.09 (\$24.54 = Gov't share)

b. Estimated under liberal eligibility at new levels:

\$20/month 1.0 %

40/month 3.0 %

60/month 6.0 %

80/month 12.0 %

100/month 78.0 %

100.0 %

- Monthly Average = \$92.60 (\$46.30 = Gov't share)
- 3. Estimated Corpsmember/Year Costs
  - a. Limited eligibility
    - (1) Old levels: \$8.50
    - (2) New levels: \$17.00
  - b. Liberal eligibility
    - (1) FY1979
      - 15.094 man/years X \$8.50 = \$ 128,199(a) First half:
      - (b) Second half: 19,356 mar/years  $X277.80^{1} = 5,377.097$ 34,450 \$5,505,296 Total

(FY1979 under limited eligibility):

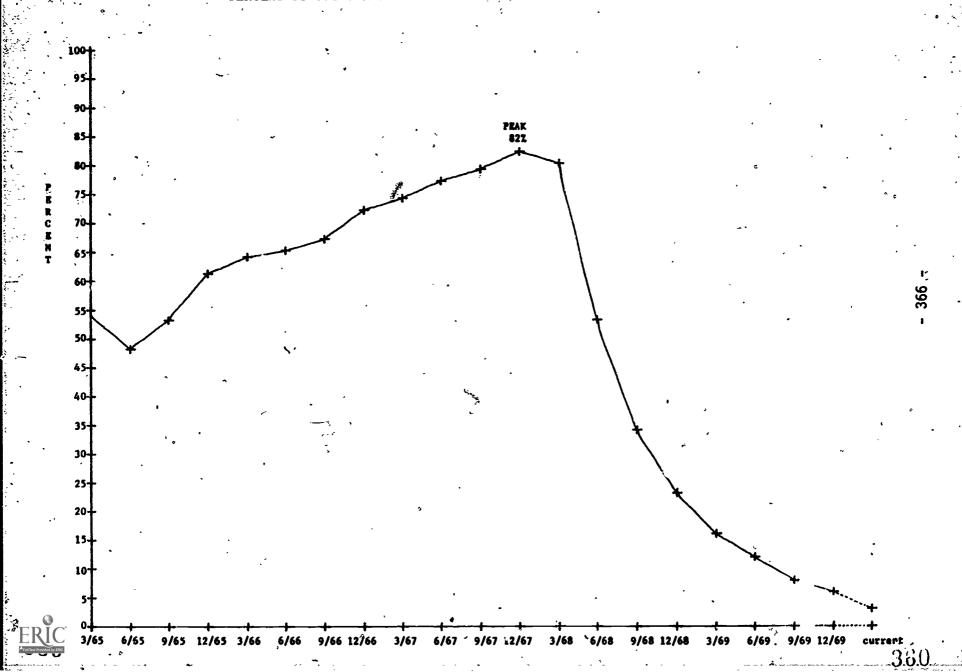
Additional required:

457,351 \$5,047,945

- (2) FY1980
  - (a) Liberal eligibility 44,000 X \$4172/  $\pm$  \$18,334,800
  - (b) Limited eligibility 44,000 X \$ 17 748,000 \$17,586,800 'Additional required:
- 1/ \$46.30 X 12 manths X 50% = \$277.80
- 2/ \$46:30 X 12 munths X 75% = \$417.00



#### PERCENT OF JOB CORPS ENROLLEES WITH ALLOTMENTS



The discussion thus far has centered around the government share of allotments as a cost. In addition, approximately \$8 million would be removed from the readjustment escrow account for the estimated 45% enrollee man/years which would not qualify for readjustment allowances. Under current policies, this amount would be returned from the escrow account to the general account when non-qualifying-for-readjustment enrollees terminate. However, under a liberal policy, this money would have been paid out as these enrollees' share of their allotments.

A liberalized allotment policy could be viewed by some enrollees as an easy means to extract the full \$100 per month readjustment allowance after each month of stay. For example, an enrollee could allot \$50 of his/her readjustment allowance, matched by another \$50, thereby sending the full \$100 to the "relative" of his/her choice after the first and every succeeding month.

Such abuse could totally erode the anticipated benefits of the living allowance policy and especially the readjustment policy. Further, under a liberalized policy, validation of eligible allotees would be an impossible task.

<sup>1/</sup> A conservative estimate for FY1980. Depending on assumptions, the figure could go as high as \$14 million.

Regardless of whether a liberal or limited allotment policy is adopted, the following table shows what occurs in each enrollee's account where maximum allotments are designated. Assume that an enrollee enters Job Corps, takes out the full allotment, gets automatic increases on time, but does not get merit increases above \$80. The first four rows show incremental amounts; the fifth row shows curulative amounts. The fourth and fifth rows show the amounts paid to the enrollee and the allotment designee IF THE ENROLLEE TERMINATED AFTER

AN EXAMPLE: CUMULATIVE AND OUTLAY EFFECT PER CORPSMEMBER, ASSUMING FULL ALLOTMENT, UNDER NEW POLICY

|  | •   | AFTER<br>MONTH | •                | ٠.               |                  |                  |                         |                         |                         |                         | :                       |
|--|---|----------------|------------------|------------------|------------------|------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| ,  |   | 1              | 2                | ·3               | 4                | 5                | 6                       | 7                       | 8                       | 9                       | 10                      |
| READJUSTMENT<br>ACCOUNT<br>CREDIT                        |   | <b>\$</b> 75   | <b>\$</b> 75     | <b>\$</b> 75     | <b>\$7</b> 5     | <b>\$75</b>      | <b>\$7</b> ,5           | .\$100                  | \$100                   | \$100                   | \$100                   |
| READJUSTMENT<br>ACCOUNT<br>AFTER ALLOTME<br>DEDUCTION    | NT  | <b>25</b>      | 25               | 25               | · 25 ·           | · · 25           | 25                      | <b>50</b>               | <b>50</b>               | , 200                   | 50                      |
| LIVING<br>ALLOWANCE                                      | , 4   | 40             | 40               | 60               | 60               | 60               | 60                      | 80                      | <b>80</b>               | <b>. 80</b>             | 80                      |
| TOTAL CASH<br>TO TERMINEE<br>AND<br>ALLOTIEF             | (Allotment) (Living Allow (Readjustment (Total) | 100<br>.) 40   | 100<br>40<br>140 | 100<br>50<br>160 | 100<br>60<br>160 | 100<br>60<br>160 | 100<br>60<br>150<br>310 | 100<br>80<br>200<br>380 | 100<br>80<br>250<br>430 | 100<br>80<br>450<br>630 | 100<br>80<br>500<br>680 |
| CUMULATIVE<br>AMOUNT PAID<br>TO TERMINEE<br>AND ALLOTTEE | . 8   | , 140          | 280              | 440              | <b>600</b>       | 760              | 1,070                   | 1,300                   | 1,530                   | 1,910                   | _2,140                  |

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#### ROSTER

Job Corps Living Allowance Conference, October 24-25, 1978 Stanley Leibner, National Office, Chairperson John Fischer, National Office, Conference Coordinator Carl Shugaar, National Office, Enrollee Support Jim Blackburn, National Office, Enrollee Support Jack Seligman, National Office, Enrollee Support Dan Gallagher, National Office, Recruitment Anola Harris, National Office, Asst. to Director John Amos, National Office, Performance Analysis Dick Jaffe, Region III ARA Al Stevens, Region IV Ralph Bowman, Ragion V Paul Rollin, Region VI Don Buchannon, Region X Jerry Oettle, Breckinridge Center Director John Acquilano, former Glenmont Center Director Bob Bowman, Woodstock Center Director Jim Banks, Dept. of Interior Hank Delaney, Dept. of Agriculture Bill Jones, Dept. of Agriculture Jerry Kovis, Marsing Center Director Bill Onstott, Wolf Creek Center Director Bob Wingerter, Army Finance Center W. L. Rickert, Army Finance Center Sue Huber, Army Finance Center Christopher McKenney, Delaware State Employment Office Tim Betts, Baltimore Prime Sponsor

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Synopsis of the Findings of the Pay and Allowance Experiment

Office of Youth Programs
Report Number 15
February 1979

#### **OVERVIEW**

This experiment was developed to determine the impacts of different allowance formulations on the retention and dropout patterns of corpsmembers. This was not a test of increased allowances because living allowance increases were offset by readjusted allowance decreases, and both are structured to encourage longer stay. The variations between the experimental and control centers were not large enough to yield significant predicted impacts except in one case. The limited number of sites and the short duration of the experiment precluded any definitive findings.

On the whole, it does not appear that higher living allowances in the experimental centers led to marked improvements in dropout rates except in the case where the most significant increases occurred. Only a small proportion of terminees claim that inadequate allowances were a reason for leaving raising questions about the potential of allowances to affect retention. Further experimentation on a much larger scale would be necessary to draw more definitive conclusions.





## Synopsis of the Findings of the Pay and Allowance Experiment

In November, 1976, three experiments were begun to compare variations in Corpsmember (CM) length of stay and overall performance in Job Corps (JC) Centers where allowances were increased, as opposed to Centers where allowances remained unchanged.

Under JC policy, CMs receive three types of monetary payments, plus some inkind services (such as medical/dental treatment, housing for certain CMs, and work clothing). The standard monetary payments are: \$30 per month living allowance (used for toiletries, off-center expenses such as coffee breaks at on-the-job training sites, transportation to visit dependents, and contributions toward support of dependents; a total of \$20 as possible merit pay during the first six months of training; and a re-adjustment allowance earned at the rate of \$50 per month starting with the first month but payable only after the completion of at least six months of training. The re-adjustment allowance is generally about \$300 and is supposed to enable the CM to enter the world of work by paying for necessary expenses until receipt of a first paycheck. The re-adjustment pay is an allowance which is supposed to cover union dues, tools, transportation to and from work, first month apartment rent, and similar "start-up" costs for entry into the work force.

A study of the impact of variations in the allowances of Job Corps members was conducted during 1977 at three selected Job Corps centers, with three other centers with similar characteristics serving as control centers. The centers at which the allowance variation experiment were conducted are:

Region VII: Pine Ridge Job Corps Civilian

Conservation Center

Region IX: Phoenix Job Corps Center

Region X: Columbia Basin Job Corps Civilian

Conservation Center

The centers used as controls were:



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Region IX: San Jose Job Corps Center (Paired with Phoenix JCC.)

Region X: Wolf Creek Job Corps Civilian Conservation
Center (Paired with Columbia Basin JCCCC.)

Marsing Job Corps Civilian Conservation Center (Paired with Pine Ridge JCCCC.)

The allowance variation plans are those which were proposed by the three centers and endorsed by their supervising region or conservation agency. In brief, the allowance variation plans were:

Columbia Basic JCCCC. After six months service, a portion of accrued readjustment allowances were paid monthly to each Corpsmember as an addition to living allowances. The total amount paid to any Corpsmember was increased. The schedule and arrangement for pryment of clothing allowances was also changed.

Pine Ridge JCCCC. Living allowances to Corpsmembers who qualified for promotion were increased faster than previously, and the increase was offset against readjustment allowances. Since some Corpsmembers who received this increase in living allowance did not stay long enough to qualify for readjustment allowances, there were small increases in total allowances payments to Corpsmembers.

Phoenix JCC. Living allowances for those who qualified for promotion were increased faster and the increase was only partially offset against readjustment allowances. Since some Corpsmembers did not remain long enough to qualify for the readjustment allowances, and since the increase is living allowance was larger than the decrease in readjustment allowances, Corpsmembers received an estimated average additional allowance of about \$10 per month, or a total increase in allowances at the center of about \$50,000 per annum.

For these experiments, the money for the increased living allowance payments was obtained by taking it from the readjustment allowance. As can be seen from Figure 1, the increase in living allowance was very small as an increment but large in impact on the re-adjustment allowance. While

this transfer of funds very slightly eased CM financial problems during training, it created anxiety and frustration among CMs as to what they would do for necessary expense upon completion of training and before receipt of their first pay check. It is entirely possible that the improved retention from the living allowance increase was offset by the declining attraction of the readjustment allowance which is only paid after a certain length of stay.

Nevertheless, as can be seen by comparing the total amount of living allowance payments by Center as shown in Figure 1, with Figures 2 and 5 which present the Mean length of stay in days, the 30 day dropout rate, and the 90 day dropout rate, there is a direct relationship between retention and the total amount of living allowance offered by each Center. Pine Ridge, offering \$705, has the best retention record, Columbia Basin, offering \$585, has the second best record, and Phoenix, offering only \$125, is suffering severe retention problems.

On the other hand, the three experimental centers have higher dropout rates than the control centers and in two of the three cases have greater increased in the dropout rate during the experimental program.

Terminees from the six centers were interviewed to determine their reasons for leaving Job Corps. Less than 1 percent responded that they left because the allowance was too small, and the proportion was three times higher in the experimental centers than in the control sites.

Figure 1

### LIVING ALLOWANCE: PRIOR -- EXPERIMENTAL

|        | •                  | EXPERIMENT | TAL LIVING ALL    | OWANCE        |
|--------|--------------------|------------|-------------------|---------------|
| MONTHS | JOB CORPS STANDARD | PHOENIX    | COLUMBIA<br>BASIN | PINE<br>RIDGE |
|        | .30                | 30         | 30                | 30            |
| 2      | 30                 | 30         | 30                | · . 30 ¯      |
| . 3    | » 30               | 30         | 30                | 30            |
|        | 30                 | 30         | 55                | 45 -          |
| 5      | 30 / 30            | 30         | 55                | <i>≥</i> 55   |
|        | 30 \               | 40         | 55                | 65            |
| 7 .    | _30                | 40 ',      | 55                | 70            |
| <br>8  | 30                 | 40         | §5.               | 70            |
|        | 30                 | 50         | ò5                | 75 ·          |
| 10     | 30                 | 50         | 55                | 75.           |
| 17     | 30                 | 50         | 55                | ·80 ′         |
| 12 .   | 30                 | 65         | 55                | 60            |
| •      |                    |            | ,                 |               |

Total Experimental Living Allowance 485 585 705 Less JC Standard Living Allowance -360 -360 -360 Allowance Allowance 125 225 345

| Cer           | nter            | Sample<br>Size | Mean Length<br>of Stay<br>in Days | Standard<br>Deviation | 30 Day<br>Drop Out<br>Rate | 90 Day<br>Drop Out Rate |
|---------------|-----------------|----------------|-----------------------------------|-----------------------|----------------------------|-------------------------|
| Experimental; | Pine Ridge      | 93             | 105.1                             | 62,3                  | 12.9 \sig.                 | 48.4) sig.              |
| Control:      | Marsing         | 120            | 84.2                              | 67.2                  | 26.7                       | 60.0                    |
| Experimental: | Phoen1x         | 250 🤸          | 75.7                              | 57.6                  | 27.21 \ n.s                | 63.97 sig               |
| Control;      | San Jose        | 176            | 705.9                             | 61.6                  | 25.0                       | 48.28                   |
| Experimental: | Columbia Basin- | 105            | 87.9                              | 72.8                  | 24.8                       | 61.0                    |
| Control:      | Wolf Creek      | 157            | 95,9                              | ₹ 73.8                | 22.3 <sup>n.\$</sup>       | 54.8 sig.               |

Figure .3. Retention Rates, Totals

| Center Type  | Sample<br>Size | Mean Length<br>of Stay<br>in Days 1 | Standard<br>Deviation | 30 Day<br>Drop Out<br>Rate | 90 Day<br>Drop Out Rate |
|--------------|----------------|-------------------------------------|-----------------------|----------------------------|-------------------------|
| Experimental | 448            | 84.7                                | 63.5                  | 23.7                       | 60.0)                   |
| Control '    | 393            | 94.8                                | 69.2                  | 23.4 n.s                   | 52:,7 sig.              |

<sup>\*</sup> All San Jose figures adjusted to reflect the effects of a policy change which decreased termination rates after the beginning of the experiments.

| Center         | FY'76       | FY '77-78   |
|----------------|-------------|-------------|
| Pine Ridge     | 10.5        | 12,9 n.s.   |
| Marsing        | 16.8        | 26.7 sig.   |
| Phoenix        | <b>15.7</b> | 27,1 sig.   |
| San Jose       | 22.0        | · 25.0 n.s. |
| Columbia Basin | 22.7        | 24.8 n.s.   |
| Wolf Creek     | 21.3        | 22.3 n.s.   |

Figure 5. Changes in 30 Day Drop Out Rates - A Comparison of Experimental and Control Centers

|               | Center         | FY'76  | FY '77-78 |
|---------------|----------------|--------|-----------|
| Experimental: | Pine Ridge     | 10.5   | 12.9 sig. |
| Control:      | Marsing        | , 16.8 | 26.7      |
| Experimental: | Phoenix        | 16.7 - | 27.2 sig. |
| Control:      | San Jose       | 22.0   | 25.0      |
| Experimental: | Columbia Basin | 22.7   | 24.8      |
| Control:      | Wolf Creek     | 21.3   | 22.3 n.s. |

## REPORT ON THE JOB CORPS NUTRITION SURVEY

Office of Youth Programs
Report Number 16

February 1979



The one aspect of Job Corps which receives overwhelmingly negative ratings by corpsmembers is the food. It is not unusual to hear complaints about the fare in institutional settings, but neither should the complaints be blithely dismissed. Annual expenditures for food per corpsmember dropped by a third in real terms over the last decade, and this could be expected to have an impact on both the quality and quantity of food served.

This comprehensive study documents that Job Corps still serves nutritionally sound meals, but that there are problems in corpsmember food selection and wastage raising serious doubts whether the tastes of enrollees are being fully considered. There is clearly need for improvement in the types of food served as well as in the nutritional education of corpsmembers. The recommendations included in the report are a good starting point.

Robert Taggart Administrator Office of Youth Programs

## ET HANDBOOK 330-F

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#### SUMMARY

The National Health Office (NHO) conducted a nutrition survey from August
1977 through March 1978 to determine whether nutritionally sound meals were
served and consumed at Job Corps centers. The goal was to insure that corps—
members were nutritionally well fed, but not overfed and that food was not wasted.

The survey results indicated that all Job Corps centers visited provide a variety of attractive and palatable foods sufficient in quality. However, excessive amounts of carbohydrates (specifically starches) are served, contributing to consumption of an unbalanced diet, overweight and nutrient deficiencies, and unnecessary food waste.

In spite of the need for better dietary guidelines, many centers have already begun programs to improve the foodservice. The interest of center staff in the nutritional status of corpsmembers is obviously present at every center.

As a result of the survey, the National Health Office is developing dietary guidelines for all centers and will provide technical assistance to individual centers. Following the survey, the NHO applied for FY 79 Technical Assistance and Training Funds to provide training in nutrition. Pending approval, centers wishing to obtain technical assistance concerning nutrition, foodservice management, and/or food sanitation may request it through the appropriate regional office. In the meantime, this report includes many ways in which center staff can begin to improve nutrition education and service and cut down on food waste.

#### STUDY METHODS

Federal regulations require that meals for Job Corpsmembers be "nutritionally-well-balanced, of good quality; and sufficient in quantity."\* To determine if these Federal regulations were being satisfactorily met, the Job Corps National Health Office conducted a nutrition survey from August 1977 through March 1978.

A qualified nutritionist visited fourteen centers in seven regions. These centers were as follow:

| III                                     | <u>IV</u>                          | <u>v</u>  | <u>, vi</u> ,                   | VII                  | IX           | <u>x</u>          |
|---|------------------------------------|-----------|---------------------------------|----------------------|--------------|-------------------|
| Blue Ridge<br>Harpers Ferry<br>Keystone | Atlanta<br>Breckinridge<br>Schenck | Cleveland | Albuquerque<br>Guthrie<br>Tulsa | Excelsion<br>Springs | Koko<br>Head | Columbia<br>Basin |

The centers were chosen according to size, geographic location, diversity of ethnic group, enrollment of males and females, and type of center (i.e., contract vs. conservation) to provide a representative base.

The first part of the survey was a pretest conducted at the six centers in Regions III and IV. Corpsmembers at each center were surveyed through question-naires and observed for their food selection practices. The observations took place at each of three meals during a 1-day period. Center directors, food-service staff, health service staff, and teachers were interviewed as well.

In view of the findings from the pretest, eight additional centers in Regions V, VI, VII, IX, and X were visited. The same format for observing and interviewing was followed, but revised survey instruments were used.



<sup>\*</sup>Specified in the Federal regulations under Title 29, Code of Federal Regulations (CFR), Section 97a.82, as amended.

Upon completion of the survey, the eight additional centers forwarded their questionnaires to the National Health Office. Because one center's questionnaires were lost in the mail, numerical data could only be computerized and analyzed for seven of the eight centers.

The numerical data in this report is based on the responses of 270 corpsmembers at those 7 centers. However, findings and recommendations are based on
observations at all 14 centers. Under separate cover, each of the seven centers
from the second part of the survey will receive detailed tables showing the
findings at that center in comparison with the other centers surveyed.

#### FINDINGS, OBSERVATIONS, AND DISCUSSION

All Job Corps centers visited provide high quality, attractive, and appetizing meals. On the whole, they serve a variety of menu items from each of the Four Food Groups (Meat, Milk, Fruits and Vegetables, Bread and Cereals). However, excessive amounts of carbohydrates (specifically starches) are served, contributing to consumption of an unbalanced diet, overweight and nutrient deficiencies, and unnecessary food waste.

Corpsmembers are not consuming nutritionally well-balanced meals.

Observat in of three meals eaten in a 1-day period revealed that corpsmembers make unwise food choices. Only one-third of the corpsmembers surveyed selected well-balanced meals; two-thirds selected mostly meat and high starch foods and neglected vegetables and dairy products.

Few differences in food preferences exist between males and females and the various ethnic groups. A majority of corpsmembers listed hamburger as their favorite food, with steak or chicken as their next favorite. Aside from meats, carbohydrate foods in the form of starches are the most popular and most frequently



selected items. Consequently, when a center serves a number of starches such as french-fried potatoes, mashed potatoes, corn, bread, and rolls at one meal, corpsmembers will choose all of these and frequently more than one helping of each.

Carbohydrates supply much of the energy that teenagers need for their bodies to perform properly. However, if consumed in excess of body energy needs, carbohydrates are converted into fat, leading to overweight and obesity.

Obesity is a common problem at Job Corps centers—particularly among female corpsmembers. Although this problem cannot be attributed totally to overconsumption of carbohydrates or starches, corpsmembers do consume excess amounts of these foods. Health service staff reported that many corpsmembers gain 10 to 20 pounds the first few months after entering Job Corps, in centers where food is served in unlimited quantities. Additionally, portion sizes of starchy foods are frequently large, further contributing to excessive food intakes.

Lack of good nutrition is not only due to the overconsumption of carbohy-drates, but also the underconsumption of other essential nutrients. An analysis of three successive meals eaten suggests that some corpsmembers receive insufficient amounts of vitamins A, C, and D, niacin, thiamine, calcium, iron, and fiber.

Vegetables are a valuable source of vitamins and minerals. However, teenagers are more inclined to neglect vegetables than any other food group. Job Corpsmembers are no exception. Some centers have increased acceptance of vegetables by preparing them in interesting ways.

Seventy percent of corpsmembers reported eating snacks between meals.

Despite popular belief, snacks can contribute important vitamins and minerals.

Unfortunately, center vending machines, vendors, or canteens offer mostly high calorie, low nutrient snacks. Therefore, some centers have added a snack service to the daily meal plan. This provides corpsmembers with essential nutrients that they sometimes miss at their regular meals.

Corpsmembers waste a lot of food.

An important finding is the amount of food wasted at Job Corps. In spite of the large quantities of food taken at meals, much of it is thrown away, particularly starchy foods, vegetables, and dairy products. Butter, jams, jellies, and sugar, which are left on the serving tray for unlimited service, are also frequently thrown away. Not only does food waste represent a substantial loss in nutrients to corpsmembers, but also a substantial loss of money for Job Corps centers.

The interest of center staff in the .
nutritional status of corpsmembers
is evident at all centers.

Some centers have already taken steps to improve nutritional status and reduce food waste by limiting portion sizes, introducing new and more nutritious menu items, and eliminating unpopular menu items. Other centers have remodeled their cafeterias, initiated evening snack services, and organized weight reduction classes.

Teachers, health service staff, foodservice staff, administrators, and corpsmembers were receptive to and readily cooperated with the survey. Despite limited resources, each staff group asked how they could improve nutrition knowledge, attitudes, and practices. Corpsmembers themselves play an active part in the planning of menus at some centers. Their responses to the survey indicated that 80 percent are concerned about the food they eat, 74 percent would like more

information on good nutrition. When center staff and corpsmembers work together in a common goal, acceptance is improved, better balanced meals are consumed, and less food is wasted.

INTEGRATING NUTRITION PROGRAMS INTO JOB CORPS CENTERS: RECOMMENDATIONS AND PLANS

Job Corps center staff can begin implementing nutrition activities. Here are some suggestions:

#### Suggestions For Foodservice Staff

- Serve fewer starchy foods at each meal. For example, serve bread or potatoes or rice. Don't leave bread out on the serving line, but give it to corpsmembers, asking them how many slices they want.
  - Cut down on the use of fats. Fats have twice as many calories as proteins, sugars, and starches. Put butter pats on the dish instead of on the serving line. Do the same with sugar packets. Avoid extra fats and sugar whenever possible such as in fried foods, sugar-coated cereals, or sugar-sweetened drinks (serve unsweetened fruit drinks).
- Try to improve overall nutrition and food acceptance. Add salad bars that include a variety of raw fruit and vegetables; provide sandwich makings as a second entree to lunch and dinner; use whole wheat and/or high fiber breads instead of white bread; and serve different kinds of milk, such as skim, low-fat, buttermilk, and chocolate. Prepare vegetables in new and interesting ways; e.g., french-frying, adding cheese sauces, and baking in casseroles.

Include snacks in meal service planning. It is important that the snack be nutritious. You might use fresh fruit; raw vegetables; a mixture of sunflower seeds, nuts, and raisins; peanut butter crackers; milk; yogurt; or fruit juices. Depending on your staff and facilities, you may want to serve sandwiches, pizza, tacos, or salads, or put out leftover meat from lunch or dinner for sandwiches.

"Teach" corpsmembers about the food you serve. How may times a day do you hear "What's that?" This is an ideal time to say--"It's broiled fish and it's cooked that way because it has much fewer calories than fried fish." You can also meet with new corpsmembers during their orientation period. You could give them a tour of the cafeteria and at the same time, explain to them the kind of food they will receive at Job Corps, how these foods may differ from what they had at home, and some special problems that could result—like gaining excess weight. You can also teach corpsmembers about food by promoting "advertising campaigns." Have corpsmembers help you with such activities as hanging nutrition posters in the cafeteria; placing signs in front of foods to indicate the number of calories; and providing special dietary information about featured food—for example, "Try our vitamin A carrot bread—our special for breakfast today."

#### Suggestions for Health Service Staff

- Attempt to identify those corpsmembers who were overweight upon entry, to Job Corps as well as those who are gaining weight since entry.

  Encourage them to begin a weight reduction program. Emphasize exercise as an important factor in weight loss. If you don't have the time or facilities to offer extended counseling, teaching, and encouragement, suggest an off-campus weight reduction program such as Weight Watchers,
- Work with foodservice staff when special diets are required. Take time to explain these diets to corpsmembers and to foodservice staff.
- Plan orientation sessions for new corpsmembers and explain to them the potential of weight gain. Stress the health benefits of an adequate diet, maintaining ideal weight, and exercise.
- Place nutrition brochures and posters in the waiting rooms of your clinics.

#### Suggestions for Health Educators

- Identify what topics in fcod and nutrition are of most interest to teenagers, for example, nutrition for athletes, diet for young women on oral contraceptives, weight control, etc. Use topics such as these to teach the basics of nutrition.
- Utilize some of the excellent nutrition audiovisuals available. Many
  have direct appeal to teenagers and can be borrowed free of charge.
   Also games, comic books, and other student-centered activities on foods and nutrition are available.

Get students actively involved in nutrition. For example, take them to grocery stores where they can see and understand food labeling firsthand. Have them do comparison shopping. Take them to food manufacturing companies if there are any nearby. Have them evaluate their own diets as to nutritive value, calories, and energy expended. Suggest that they develop recipes that are high in nutrients for the foodservice staff. Have them prepare special "high in nutrient" snack foods. In all, get them involved in food-related activities they like and to which they can relate.

#### Suggestions for Center Administrative Staff

- Try to involve corpsmembers in the foodservice operation. Work with the student government in the formation of a diet or nutrition committee that will be responsible for taking complaints and suggestions to the staff about the foodservice. Suggest that this committee develop ways to promote better nutrition (poster contests, new recipe development, initiation of special or holiday meals, etc.). Initiate a campus-wide food survey to find out what corpsmembers like and dislike about the foodservice.
- Investigate the possibilities for adding nutritious snacks to vending machines and center canteens. Snacks such as apples, milk, granola bars, raisins, nuts, yogurt, juice, etc., are available for vending machine sales, and studies show that teenagers will select these items if available to them.

#### Suggestions for Other Job Corps Staff

- Eat periodically in the cafeteria to foster better relations between staff and corpsmembers, to improve corpsmember acceptance of food served, and to decrease food waster Incidentally, you can get a good and inexpensive meal.
- You can help implement nutrition activities at your center by promoting any of the suggestions mentioned above or any of your own initiative.

#### Suggestions-for-Job-Corps\_Regional\_Offices\_

- Coordinate nutrition activities among centers in your region. Region X, for example, presently conducts a "Food Fair" in which corpsmembers plan and prepare meals by themselves in competition with other centers in the region.
- Provide or request technical assistance and training on nutrition and foodservice for those centers that need it.
- Project Managers you can improve nutritional status and food acceptance by periodically eating in the center cafeteria and by recommending nutrition activities such as those outlined above, if needed.
- Regional Review Teams corpsmembers usually complain about the food (and the health service). Check out their complaints carefully in your review, and see that actual déficiencies are corrected.

The National Health Office will assist center staff in their efforts to improve the foodservice and the nutritional status of corpsmembers. It plans to do the following:

Many centers utilize the Army Master Menus. These guidelines were developed for a population other than Job Corpsmembers. In providing guidelines to Job Corps, the NHO will consider the needs of all centers, yet allow for adaptation by individual centers. For example, guidelines will indicate portion sizes for male and female cc. psmembers, for corpsmembers who are involved in heavy labor and require more calories each day, and for female corpsmembers who take oral contraceptives. Guidelines will also include alternative ways to meet nutrient requirements. Planned menus will accompany these guidelines.

Provide workshops and technical assistance to foodservice stajf and other staff.

Innovations in foodservice as well, as new findings and research in, i trition science are areas in which foodservice staff and other staff seldom have the time to keep current. Center staff representatives will be brought together in regional workshops for training in meal planning, sanitation, management, etc. The NHO will also offer technical assistance to individual centers to show staff how to apply this information.

The NHO has already begun to provide technical assistance through the development of a booklet written especially for Job Corps foodservice staff.

Provide workshops and technical assistance to health service staff.

Due to hectic schedules, many health service staff also find it difficult to remain up-to-date on nutrition information. In addition, the frustrations of poor responses to nutrition counseling often discourage them from doing any



counseling at all. The NHO can provide a valuable service to health service staff through workshops and individual technical assistance, which will lessen these concerns and improve nutrition services.

The NHO has already begun developing a booklet and diet guide to aid the health service staff in nutrition counseling of overweight corpsmembers.

## Provide technical assistance to health education teachers.

Health education teachers also have critical needs for technical assistance as they are the ones providing the nutrition knowledge to corpsmembers in their health education classes. Unfortunately, their nutrition resources are very limited. The reeds of health educators are already being considered in a publication called "Nutrition Education Resources for Health Educators and Health Providers," developed specifically for Job Corps. In addition, technical assistance may be provided through information bulletins, periodical mailouts of new and available nutrition information, or special workshops for health educators.

#### CONCLUSION

This report identifies areas of nutritional needs and points out what can and will be done to meet these needs. The ultimate goal of center staff should be to promote optimum nutrition of corpsmembers.

A successful nutrition program is dependent upon the knowledge, cooperation, and participation not only of center staff, but most importantly, the corpsmembers themselves. When corpsmembers are motivated to improve their nutrition, they are more likely to choose and eat well-balanced meals. To motivate corpsmembers, foodservice staff, health service staff, health educators,

administrators, and regional staff must take an active part in enutrition programs.

Given the interest and involvement already exhibited by center and regional staff, Job Corps nutrition programs should be successful.

APPENDIX A

TABLES OF OVERALL FINDINGS

# TABLE 1. Overall Responses of 270 Corpsmembers to "Food Survey for Job Corpsmembers"

| _ Response t                  | to the Question                   | <u> </u>                                | Percei<br>Respond |              | ·<br>·       |
|-------------------------------|-----------------------------------|---|-------------------|--------------|--------------|
| Corpsmembers<br>balanced meal | who think they eas "most of the t | at well-<br>ime."                       | 66                |              | <br>∵ ;      |
| Corpsmembers<br>the food they | who are concerned eat.            | i abort                                 | 80                | ,            | <del>-</del> |
|                               | who would like mon good nutrition |   | . 74              |              | -            |
|                               | who think the bes                 |   |                   |              |              |
|                               | books                             |   | 63                | •            | •            |
| A Commence                    | teachers                          | • •                                     | °, 17             | :            |              |
| Corpsmembers                  | who skip meals                    |   | <del>.</del> .    | <del> </del> | <b></b>      |
|                               | seldom                            |   | 26                |              |              |
| •                             | once in awhile                    | •                                       | 42                | •            | •            |
|                               | often                             | <u></u> '                               | . 30              | •            | •            |
| Reason for ch                 | cipping meals is                  |   |                   |              | _            |
| neuson (O) Sh                 | no time                           | • •<br>>                                | 1-3               | •            | •            |
|                               | don't like foo                    | 4                                       | 43                |              | . /          |
| •                             | not hungry                        | •                                       | 28                |              |              |
| Councemberry                  |                                   |   |                   | <del></del>  | _            |
| meals.                        | who eat snacks b                  | - · · · · · · · · · · · · · · · · · · · | 70                |              |              |
|                               | ts have changed                   | since                                   | •                 | 1.           | °            |
| coming to Job                 |                                   | , <b>f</b> ·                            | ïo                | . /          |              |
| ,                             | eat more<br>eat less              | ,                                       | 18                |              |              |
| è                             | eat less<br>eat better bal        | ancod mosts                             | 15                |              | •            |
| •                             | habits are same                   |   | 17                |              |              |
| 03                            |                                   | <u> </u>                                |                   |              | _            |
| Glasses of mi                 | 1k corpsmembers                   | ırınk each                              |                   | . 🧥 🔭        |              |
| J                             | 2 or more                         |   | ° .73             | <b>J</b>     |              |
|                               | 4 or more                         | ,                                       | 33                | <b>7</b>     |              |
| Beverage mos                  | t often selected                  | at meals                                |                   | ,            |              |
|                               | milk °                            | •                                       | 43                | ı            |              |
| 9 61                          | fruit juice                       | * *                                     | 23.               |              |              |
|                               |                                   |   |                   |              |              |

#### Response to the Question

Kinds of snacks chosen. soft drinks potato chips or crackers. 2) fruit or fruit juices 3) 1) meats Fonds corpsmembers would like to see more of in the cafeteria. .2) fresh fruits milk products 3) hamburgers-1) Three foods at Job Corps that corpsmembers like best. 2) chicken or steak fruits 3) Three foods at Job Corps that corpsmembers like least. 1) potato 2) eggs liver



Table 2. - Overall Opinions of 270 Corpsmembers about Job Corps Foodservice

| (Diago unto the food                           | Percent of Corpsmembers Responding |                |      |        |        |  |
|--|------------------------------------|----------------|------|--------|--------|--|
| Please rate the food-<br>service according to: | Excellent                          | Very.<br>•Good | Good | - Fair | Poor   |  |
| g Cafeteria Appearance                         | · .                                | 20             | 29   | 27     | 6      |  |
| Speed of Service                               | . 5                                | 12             | 27   | 33     | 15     |  |
| Food Attractiveness —                          | _ 3                                | 4              | 23 - | 37 ~   | 23.    |  |
| Taste of Food                                  | ~ 2 ·                              | 3              | 17   | 48     | 22     |  |
| Variety of Food                                | . 3                                | .8             | 21 . | 37• :  | 22_ 0  |  |
| Temperature of Food                            | 4                                  | 7              | 17   | 29     | 33 .   |  |
| Preparation of Food                            | 2 .                                | 9 .            | ° 17 | 37     | زر 27  |  |
| Cleanliness of Cafeteria                       | , 12                               | 17             | 30   | 22-    | 12 · · |  |
| Attitude of Servers                            | . '9 P                             | ]9 .           | i7 = | 25     | 22     |  |

TABLE 3.—Overall Opinions of Teachers about Job Corps Foodservice

| 350  | Pen       | ent of Te         | eachers Re | esponding | : i  |
|--|-----------|-------------------|------------|-----------|------|
| Please rate the food service according to: | Excellent | Vèry<br>Good      | Good       | Fair '    | Poor |
| Cafeteria Appearance                       | 16        | 25                | 37         | 17        | . 0  |
| Speed of Service                           | 12\ .     | 27                | 35         | 17 `      | . 2  |
| Food Attractiveness                        | , 9       | 19                | . 39       | 20        | . 7  |
| Taste of Food.                             | 8 .       | ' 17 <sup>·</sup> | 38         | 26        | 5    |
| Variety of Food                            | 11        | 24                | 33,        | 15        | ้า   |
| Temperature of Food                        | 8 ,       | 14                | 28         | 29        | 14,  |
| Preparation of Food                        | , 3 ~     | 22                | 29         | 28        | 10   |
| Cleanliness of Cafeteria                   | 9         | 29                | 29 .       | 19        | 8 ,  |
| Attitude of Servers .                      | · ·11     | Ż1                | 33         | 13        | 16   |
|  |           | i                 | ı          | 1 -       | 1    |

TABLE 4.--Number of Menu Items Served and Selected Overall in the Seven Centers During a One-Day Period

| Meâ1                   | Number of<br>Menu Items<br>Available<br>Overall | Number of<br>Menu Items<br>Selected<br>Overall | Menu Items Most Frequently Selected  |
|------------------------|---|--|--|
| Breakfast Lunch Dinner | 54 ×  | 18   | Eggs Meat (Bacon, Sausage, or Ham) Bread Fruit or Fruit Juices Meat Potatoes Bread Milk Dessert Meat Potatoes Bread Milk |

Sample Meals Served and Selected for Each of Three Meals in a Day by X Center

| Mea 1                                   | Meal Served              | Menu Items Selected*    |
|---|--------------------------|-------------------------|
| *************************************** |                          | 0.0                     |
| Breakfast                               | Finae                    | Eggs (2)                |
| ::Di.eqki.gor                           | Eggs<br>Sausage or bacon | Sausage or bacon (2)    |
|   | Jaysaye of bacon         | Hot or cold cereal      |
|   | Hot or cold cereal .     | Pastry -                |
|   | Pastry                   | Fresh or canned fruit   |
|   | Fresh or canned fruit    | Milk                    |
| •                                       | Milk                     | MIIK                    |
|   | French toast             |                         |
|   | Fruit cup                |                         |
|   | Juices - sweetened       | •                       |
|   | Tomato juice             |                         |
|   |                          | ~~~                     |
| Lunch                                   | - Fried_chicken          | Fried chicken           |
|   | Oven brown potatoes or   | Ovén brown potatoes or  |
| *ion                                    | mashed potatoes          | mashed potatoes         |
| •                                       | Dressing                 | Dressing                |
| · · ·                                   | Bread                    | Bread (2)               |
| •                                       | Milk                     | Milk ,                  |
|   | Salmón steaks            | • -                     |
| <b>*</b>                                | Cabbage rolls            | ·,                      |
|   | Beets                    |                         |
|   | Corn                     |                         |
| ē                                       | Carrots                  |                         |
|   | Tossed salad             | •                       |
|   | Jello-fruit-salad        |                         |
| خيخ                                     | Bean calad               |                         |
| · .                                     | Cottage cheese salad     |                         |
| •                                       | Mixed fruits             |                         |
|   | Juice - sweetened        |                         |
|   | Strawberry shortcake     | ** *** **** ***         |
| -                                       | Ice cream bars           | -                       |
| . * *                                   | . Icc Cicam bais         | •                       |
| Dinner                                  | Chili or grilled cheese  | Chili or grilled cheese |
| Diffiler                                | sandwich                 | sandwich                |
| •                                       |                          | Bread (2)               |
|   | Bread _                  | Milk                    |
| •                                       | Milk                     | PITIK                   |
|   | Liver and onions         | *                       |
| •                                       | Mashed potatoes          | •                       |
| ,                                       | Córn                     | _                       |
|   | Tossed sa-lad            |                         |
| •                                       | Bean salad               |                         |
| •                                       | Mixed fruit              | •                       |
| •                                       | Ice cream                | ,                       |

\*Menu items selected by 50 percent or more of corpsmembers in the survey.

TABLE 5.— Overall Analyses of Three Meals Selected in a Day by 270 Corpsmembers (According to the Four Food Groups)

| MeaT      | Percent of Corpsmembers Who Selected Well-Balanced Meals* |
|-----------|---|
| Bréakfast | .34   |
| Lunch     | 36  |
| Dinner    | 29  |
| TOTAL     | 33  |

\*Percent of corpsmembers who selected a serving from each of the Four Food Groups at one meal.

#### Four Food Groups

Milk
Meat
Fruit and Vegetables
Breads and Cereals
Other Foods (Fats and Sugars)

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APPENDIX B

REVIEW OF THE LITERATURE ON TEENAGE FOOD HABITS



#### Teenage Food Habits in the U.S.

The belief is currently held that many teenagers have perilous food habits and are on the brink of nutritional disaster. Adolescents are known to have marked preferences for uncommon food patterns. Heunemann et al. 2 reported their subjects ate breakfasts consisting of pork chops, watermelon, and salami and cheese sandwiches, or lunches consisting of potato salad and sunflower seeds. During one 7-day period, many of the subjects snacked constantly in lieu of eating a single meal. This same study found that males ate larger amounts and females ate smaller amounts of dairy products, vegetables, and fruits, and girls frequently skipped breakfasts. All groups of students consumed large amounts of the meat and legume foods.

Walker et al., studied acceptance of fruits and vegetables by teenagers. They found that teenagers prefer fruits over vegetables. They

like the texture of raw fruits and vegetables over the cooked and processed

forms and the sweet tasting over the tart or pland.

\*Most studies on teenage food habits were conducted in the 1960's. This literature review reflects this fact.



Coatney, Barbara. Food Habits and Dietary Practices of Young Adults
Including Food Fats, Fallacies and Nutrition Quackery. Thesis. Texas
Woman's University, 1974.

Huenemann, R.L., Shapiro, L.R., Hampton, M.C., and Mitchell, B.W. "Food and Eating Practices of Teenagers." <u>Journal of the American Dietetic Association</u>, July 1968, pp. 17-24.

Walker, M.A. et al. "Fruit and Vegetable Acceptance by Students."

Journal of the American Dietetic Association, 62(1973), p. 268.

Shuck studied food likes and dislikes. One hundred and eighteen South Dakota college students were asked to indicate their attitudes toward a list of 61 foods. The only vegetable liked listed by 90 percent of the students was corn. Strawberries, peaches, apples, and oranges were the best liked fruits.

Few differences exist between teens of various ethnic groups. Snacking has become a way of life for all teenagers. One study found soft drinks, candy, and potato chips to be the most frequently consumed snacks. 5

Differences do exist in teenage food habits at different socioeconomic levels. Walter found that where incomes are low, cheap energy
foods, such as grains, completely dominate consumption patterns. Shuck
and Tartt looked at food consumption in low-income, rural, black families
in Mississippi. Meats and grains were the principal contributors to
the caloric values of foods used. Fat represented over 40 percent of
the total calories.

Shuck, Cecilia. "Food Preferences of South Dakota College Students."

Journal of the American Dietetic Association, 39 (December 1961),

pp. 595-597.

Van Laningham, E. "A Comparative Study of Snacking Habits of Two Groups of College Women." Ph.D. Dissertation, Texas Woman's University, 1971.

Walter, John. "Two Poverties Equal One Hunger." <u>Journal of Mutrition</u> <u>Education</u>, 5 (April/June 1973), pp. 129-133.

<sup>7</sup>Shuck, Cecilia and Tartt, June. "Food Consumption of Low-Income, Rural Negro Households in Mississippi." <u>Journal of the American Dietetic Association</u>, 62 (February 1973), pp. 151-155.

#### Nutritional Needs of Teenagers

Adolescence is a time of rapid physical growth rate, second only to the prenatal and infancy period. Teenage boys need approximately 3,000 calories each day, while girls need about 2,100 calories. Nutrient needs are much the same for males and females except girls require less protein.

Teenage girls taking oral contraceptives have a greater need for certain nutrients. Recent research shows an increasing correlation between vitamin deficiencies and the use of the pill. Increased need for thiamine, riboflavin, vitamins  $B_6$ ,  $B_{12}$ , C, and folic acid is found in women using the pill.

#### Adequacy and Inadequacy of Teenage Diets

In the Health and Nutrition Examination Survey (HANES) of the National Center for Health Statistics, adolescents in low-income ratio states generally had lower nutrient intakes than did adolescents in high-income ratio states. Black adolescents tended to have the lowest nutrient intakes and white adolescents had the highest. This was true of all nutrients except vitamin A for which Spanish-Americans in low-income ratio states had the lowest values.

National Center for Health Statistics, Preliminary Findings, First Health and Nutrition Examination Survey, United States, 1971-1972, DHEW Pub. No. (HRA) 74-1219-1, Health Resources Admin., Public Health Service, USDHEW, January 1974.

The belief that all teenagers are on the brink of nutritional disasteries not accepted by all. Some feel that not all adolescents are a homogenous group and it is a mistake to consider them in this manner when analyzing their nutritional status. Jean Mayer, noted nutritionist, states that "lack of good nutrition is not necessarily due to the pizzas, frappes, and hamburgers that teenagers eat; it depends on how much of these foods they consume in relation to what else they eat."

Many are now finding that snacking contributes to the adequacy of teenage diets. Wharton feels that if snacks contribute more than 20 percent of the day's calorie intake, this diet may be more adequate in all nutrients except vitamins A and C than a diet eaten during the course of three traditional meals.

A common type of teenage malnutrition today is overnutrition and obesity. Results of various obesity studies have shown that obesity is a common medical problem among adolescents. Approximately one-half of these obese teenagers develop their obesity during puberty. Followup studies have indicated that when obesity remains unchecked, the problem becomes more severe and more difficult to correct. More teenage females than teenage males are overweight. 12



Mayer, Jean. "White House Conference on Food, Nutrition, and Health."
Journal of Home Economics, 61 (September 1969), pp. 499-502.

<sup>10</sup>Wharton, Mary. "Nutritive Intake of Adolescents." <u>Journal of the American Dietetic Association</u>, 42 (April 1963), pp. 306-309.

<sup>11</sup> Hammar, S.L. "Adolescent Obesity." <u>Nutrition News</u>, 27 (October 1964), p. 1.

12 Coatney. B.

The key factor in teenage obesity is not exclusively overeating. Studies have shown that the overweight teenager may be consuming fewer calories than the teenager of normal weight, but that inactivity causes much of the obesity.

Leverton states that "there is no research evidence to indicate that frequent eating per se is detrimental to health. Frequent eating of only empty calories or that leads to excessive food intakes would be detrimental."

#### <u>Influences of Teenage Food Habits</u>

A variety of influences aid in food habit development. Eating habits are greatly determined by one's culture, as well as by the availability of food. A culture has a very important influence in shaping the food habits of a community. Cultural patterns reflect the economic poverty or prosperity of a region. Even if economic situations change, the cultural patterns of food remain the same.

Abundant evidence from animals suggest that food habits established in infancy and early childhood are likely to persist throughout life.

Children who are exposed to a wide variety of food with varying tastes and textures can accept change in food habits with little difficulty.

<sup>13</sup> Leverton, Ruth. "Facts and Fallacies About Nutrition and Learning." Journal of Nutrition Education, 1 (Fall 1969), pp. 7-9.

The authoritative influence most often mentioned in the development of children's eating habits is the mother. <sup>14</sup> In fact, interviews with Illinois teenagers indicate their belief that parents should set an example with proper eating habits. <sup>15</sup>

The commercial advertising of food products in the United States has had a drastic effect on youth consumption patterns. Many of these ads are geared to young people.

Today, more than ever, there are more opportunities to select poor food because of the broad array of new foods available. Convenience foods have become a fact of modern life.

# Nutrition Education for Teenagers

Various studies have indicated that the acquisition of knowledge relative to nutrition does not necessarily mean a change in food attitudes or practices. A USDA project to develop a nutrition curriculum for students in grades kindergarten through 12 showed significant gains in nutrition knowledge at all grade levels. However, there was no overall significant, positive, or negative effect on students' practices and attitudes toward food. 16

not as simplistically related as we once thought. "Nutrition education programs have been going on in our schools for nearly 30 years. Why

<sup>14</sup> Coatney, B.

<sup>15</sup>Spindler, E.B. and Acker, G. "Teenagers Tell Us About Their Nutrition."

Journal of the American Dietetic Association, 43 (September 1963),

pp. 228-231.

<sup>160&#</sup>x27;Brien, R., Bickel, A., Gross, S., and Frankel, S. A Comprehensive School Foodservice Related Nutrition Education Curriculum Evaluation Project. Grades K-12. Final Report. U.S. Department of Agriculture, Washington, D.C., December 1976.

are not nutritional practices more commensurate with the programs provided?" Bonan states further that in contrast to educational experiences, the content of television commercials is not only retained longer, but has a more potent effect on our behavior. The ultimate goal of the advertising industry is to expose the product often enough to motivate consumers to purchase the product. Advertisers are not interested in increasing intellect but in increasing sales. In contrast to education, ads do not explain, they motivate action by creating a need for the product. 17

The 1971 National Nutrition Education Conference opened by saying,

... motivation is equally as important as nutrition education and offers a problem that is even more difficult to solve. . . some people obviously are malnourished because they can't afford to but the necessary food; this is an economic problem. Some people are malnourished even though they have the money; they don't know what to buy. This is an educational problem. But many people are malnourished even though they have the money and know what to buy; they just don't care about good nutrition. This is a motivational problem. Attacking it may well call for dramatic new approaches in the years ahead.18

The formula for motivating teenagers to improve their nutrition presented by Spindler included 1) understanding the age group, 2) basing the approach on the needs and wants of the teenager, and 3) involving them in solving their problems. 19

<sup>17</sup> Bonan, Jack D. "Nutrition Education: Too Much, Too Little or Too Bad?"

Journal of School Health, December 1972.

<sup>18&</sup>quot;Nutrition Education for Youth." <u>Journal of Home Economics</u>, 64 (February 1972), pp. 34-38.

<sup>19</sup> Spindler, E.B. "Motivating Teenagers to Improve Nutrition." <u>Journal of Home Economics</u>, 55 (January 1963), pp. 28-32.

Schools in Virginia are involving students in efforts to build better junch programs. Four Virginia schools took part in a national recipe-testing project. Students were asked to evaluate a series of specially prepared menu items. A student committee helps with taste-testing and lunch planning at a school in Indiana. "Students accept new foods more readily if they are involved in the decisionmaking." 20

Gurriculum planners developing a nutrition education program in Colorado asked students what they wanted to learn. Some students said that they hate proteins and vitamins and wanted the teacher to talk about bread and beef.

Others indicated that they wanted the teacher to "give us the facts and let us decide to do it our way" instead of being told what to eat. The athletes wanted to know what they could eat to keep from becoming nauseated. Overweight youths were interested in dieting and losing weight. 21 All of the students were interested in their own health.

Teenagers often are not given credit for their ability to contribute to meal planning. Oftentimes their needs are only assumed. At the 1971

National Nutrition Education Conference, one teenager responded. "What is made

<sup>&</sup>lt;sup>20</sup>"Lunches Kids Like." <u>Food and Nutrition</u>, 7 (August 1977), p. 5.

MacReynolds, J. "Can Teaching Good Nutrition Be Bad?" <u>Journal of Nutrition</u> Education, Summer 1970, p. 14.

available for us for snacks? Mostly sweets. Snacks could be one of the best shortcuts to good nutrition in the United States." Another teen suggested putting nutritional messages on napkins at school such as "Did you drink your milk today?" Another said that comic books with nutritional messages are a good idea. Teenagers have repeatedly suggested that we should make good nutrition a fad.

An experiment in changing food habits in the types of foods sold through vending machines and concessions was tried in six secondary schools. No special attempts were made to educate. Introduction of an apple vending machine led to a 27 percent drop in chocolate par sales. Replacement of candy and candy bars by nuts, seeds, and grain products led to a 23 percent drop in vending machine sales. Introduction of milk to schools that had previously sold only poolled to a 42 percent drop in pop sales. Other reports have indicated that when nutritious foods are offered to young people, they will select them.

At the 1971 National Nutrition Education Conference, youths responded to the question of how to motivate teenagers to better food habits.

Youth is helped by someone who respects him as a person, who lets him know he is liked, who listens and therefore understands him, who is fair and firm; who is capable and works with him allowing him his freedom and independence, allowing him to gauge his intelligence and his energies, — and providing him an opportunity to make his own decisions.24

<sup>22&</sup>quot;Nutrition Education for Youth."

<sup>23</sup>Crawford, Louise. "Junk Food In Our Schools? A Look at Student Spending in School Vending Machines and Concessions." <u>Journal of the American Dietetic Association</u>, 38(3) (July 1977), pp. 193-197.

<sup>&</sup>lt;sup>24</sup>"Nutrition Education for Youth."

AN EVALUATION OF A PILOT WEIGHT CONTROL PROGRAM TONGUE POINT JOB CORPS CENTER ASTORIA, OREGON

Dorothy Culjat

Office of Youth Programs Report Number 17

February 1979



Obesity is a major health problem of Job Corpsmembers. Female enrollees are most often overweight relative to their age, height and frame. This demonstration project in a single Job Corps center attempted to address this problem. The sample was limited and the resulting weight losses among participants were modest. Some of the difficulties and solutions of weight loss programs are identified. It appears that obesity will not be easily overcome. broader sense, this study suggests the kinds of demonstration and testing efforts which are possible within the controlled Job Corps environment. Corps offers a laboratory for learning how to solve the multiple problems of economically disadvantaged youth.

> ROBERT TAGGART Administrator Office of Youth Programs

### ACKNOWLEDGEMENTS

I would like to take this opportunity to thank John Crosby, Director, Life Skills Program, and Ataa Akyeampong, Head Counselor, Tongue Point Job Corps Center, for allowing this pilot weight control program to be introduced and implemented at the center. Without their approval and enthusiastic support, this project would not have been possible.

At the same time, I would like to express my deep appreciation to

Den Annett, Counselor, and Cindy Stoffel, Resident Advisor, for their willingness to co-teach the weight control program. Their dedication to and

interest in the well-being of the corpswomen who participated in the

program was evident throughout:

Lastly, I would like to acknowledge those corpsmembers whose participation in and receptiveness to the program made it very worthwhile.



Obesity is widely considered a major health problem with medical and psychological implications as well as economic and social consequences. It is estimated that by one measure or another as many as 25 per cent of American adults are either overweight or obese. Approximately 15 to 20 per cent of all teenagers in America are obese (Mayer, 1968). If, as seems likely, these same percentages can be applied to the Job Corps population, then approximately 4,500 enrollees may be seen as in need of or potential users of a weight reduction program.

In addition to those individuals who are already overweight and/or obese upon entering Job Corps programs, the Guthrie Job Corps Center for Women has documented cases of previously normal weight corpswomen who became overweight or obese during their stay at the center. In April, 1978, Mary Jane McGoodwin, Portland Job Corps Center nurse, conducted a random check of corpsmembers weights. Of 15 corpsmembers weighed, six (40%) had gained weight since enrolling in Job Corps. Weight gains ranged from 2 to 45 pounds (see Table 1).

Obesity represents a major obstacle to securing employment. As stated in the Guthrie report,

In some jobs, obesity presents unacceptably high risks to personal safety to permit employment. In others, job requirements involving physical dexterity ...limit or prohibit employment of an unusually obese individual. Certain health occupations in which the employee must be able to assist in patient ambulatory efforts, and in other activities be able to physically support and protect patients, must eliminate the obese from employment consideration. Employers cannot obtain insurance coverage for obese employees as easily as they can for other individuals.

In addition, the social stigma attached to obesity greatly influences employers. In the United States, obuse individuals have come to be viewed



Random Check of Corpsmembers! Weights

|           | <u>SEX</u>  | RACE                      | ADMISSION WEIGHT | PRESENT WEIGHT      | GAIN        | LOSS           |
|-----------|-------------|---------------------------|------------------|---------------------|-------------|----------------|
| -         | H           | - <b>W</b>                | Aug. 76 - 174#   | April '78 - 179#    | · 5#        |                |
|           | •           | ē <sup>‡</sup> <b>B</b> ∕ | Nov. 76 - 153    | April '78 - 164     | 11          | 4              |
| , -       | <b>'M</b> - | ¥                         | Nov. 76 - 191    | April '78 - 183     | •           | 8#             |
| .· .·<br> | H           | В                         | Nov. 76 - 157    | April '78 - 169     | 12 (Height  | gain 1-1/2")** |
| · .•      | F           | В                         | Mar. 77 - 162    | April '78 - 162     | <b>o</b>    | 0              |
|           | <b>,F</b>   | W                         | Mar. 77 - 209    | April '78 - 254     | 45 (Food S  | ervice)        |
|           | H           | , В                       | Nov. 77 - 164    | April '78 - 159     |             | . <b>5</b>     |
| :         | Ĥ           | ٧                         | July 77 - 177    | April '78' - 183    | 6 (Height   | gain 1-1/2")   |
| -         | F           | W                         | July 77 - 138    | April '78 - 135     |             | 3              |
|           | F           | В                         | Oct. 77 - 117    | April-178 - 117     |             | 0              |
|           | F           | Aka.I.                    | Aug. 77 - 114%   | April '78 - 137     | 22½ .       |                |
| ~         | М           | Mex.                      | July 77 - 164    | April '78 - 173     | 9           |                |
|           | F '         | В                         | Jan. 78 - 183    | April '78 - 176.    |             | 7              |
| •         | н -         | , Á                       | Jan. 78 - 161    | April '78 - 172     | <b>' 11</b> | سد<br>رسان ا   |
|           | н           | W                         | Jan. 78 - 133    | - April 178 - 133 . |             | o' .           |
| ٠         | M           | ¥                         | Jan. 78 - 141    | April '78 - 148     | 7           |                |
| •         | F           | <b>± V</b> ,              | Jan. 78 - 120    | April '78 - 122     | 2           |                |
| ,         | e Ponés     | inde Tobe Corner C        |                  | ,                   |             | 415            |

as a sethetically unsightly and are seen by many as self-indulgent gluttons lacking in will power and self-control. Thus the overweight or obese Job Corps graduate may find himself/herself highly skilled but still unemployable.

Crowley (1976) aptly described the discrimination of the overweight and obese in the labor market:

Many jobs and professions require normal or nearly "ideal weight" as a criterion for employment. Commercial airlines require all flight personnel to maintain near normal weight. Many state, county and local police officers must control their weight, excess fat in some cases cause for suspension...It is interesting to note the physique of the numerous presidential candidates. No obese person has been a serious contender in modern times.

According to a <u>Wall Street Journal</u> (1973) article concerning obese individuals and the job market, one in three overweight persons in the national Diet Workshop weight control organization reported having experienced job bias due to his/her being obese. Some companies refuse even to interview obese individuals while others insist upon a physical exam which obese persons cannot pass. Crowley observed that a "very real and hurtful financial loss for the obese person in the American labor market is lack of promotion, as well as unlikelihood of securing a better-paying job."

Obesity has medical, economic, psychological and social implications for many individuals including Job Corps enrollees. Based on the above findings, it would appear that weight reduction can have favorable effects, both curative and preventive, as well as an economic impact on career opportunities and lifetime earnings for Job Corps graduates.

Likewise, based on informal observations at a number of centers (Bickel, 1977), it became clear that a weight control program would serve a vital function in any Job Corps center. Such a program would be aimed at



i) training the already obese corpsmembers in weight reduction techniques and 2) teaching normal weight corpsmembers how to prevent weight gain both during Job Corps enrollment and in adult life.

Treatment of obesity and weight reduction are subjects of enormous medical and popular interest. Traditional approaches to treatment fall into three primary categories:

- 1) General medical management which emphasizes "dieting" and often includes prescription drugs such as amphetemines and diuretics;
- 2) Psychiatric and psychotherapeutic treatment in which obesity is seen as a symptom of emotional problems;
- 3) Self-help groups such as Weight Watchers, Övereaters Anonymous, and TOPS which provide social support and nutrition information.

There has been little evidence that these three approaches are effective in fostering permanent weight loss among significantly obese persons. The observation of many professionals who treat obese persons is that the individuals lose weight, often with little difficulty, only to regain it after the "diet" is terminated and the relationship with the physician, therapist or group is no longer available (Armstrong and Booth, 1976). It is clear that these traditional approaches do not provide obese individuals with skills for changing eating behavior. Without these skills, enduring weight loss cannot be achieved.

In essence, an effective weight less program must be a behavior change program in which individuals acquire new skills for managing weight-related habits, primarily eating behavior and physical activity.

In light of the above, a pilot weight control program based on principles of behavior change was developed and implemented at the Tongue Point Job Corps Center, Astoria, Oregon. The program utilized an educational approach

### PROGRAM DESCRIPTION

The program, developed by two health education consultants in Region X, was a behavioral-based approach to the treatment of obesity and was essentially a re-education process whereby appropriate eating behavior is learned and inappropriate eating behavior is hopefully eliminated. Many of the cor onents found in behavior modification weight control programs were employed: 1) self-monitoring (recording) of body weight and food intake; 2) environmental control procedures; 3) goal setting; 4) nutritional and educational counseling; 5) contingency contracting; 6) self-reward, and 7) social reinforcement in the form of instructor and group support.

A program manual consisting of seven lessons plans was developed to guide the instructors conducting the course. Four books served as resource texts to the program. These included A Diet for Living, J. Mayer, 1975; Take It Off and Keep It Off, Jeffrey and Katz, 1977; Eating is Okay, Jordan, Levitz and Kimbrell, 1976, and Act Thin, Stay Thin, R. Stuart, 1978. A weight control program kit was assembled which, in addition to the instructor's manual and texts, included a Borg scale and sufficient materials required for each session for fifteen participants. Corpsmembers were provided with folders in which to keep eating diaries, weight change graphs, behavior change checklists, self-reward contract forms and other materials. Although not originally included in the program, upon the suggestion of the instructors, hand-out sheets reviewing each lesson were developed to be distributed to corpsmembers at the end of each session.

The program was introduced to the counseling staff of the Tongue Point

Job Corps Center in March, 1978. Two staff members elected to co-teach the

course. One instructor, a counselor, had an M.S. in general experimental

psychology and had previous experience in a similar program designed for

college students. The other instructor, a resident advisor, had a B.S. in psy-

whereby the corpsmember is viewed as a student studying his/her own behavior and is taught new skills for managing eating and physical activity. Emphasis was on slow, gradual weight loss.

The purpose of this report is to evaluate the effectiveness of the pilot weight control program. Since its implementation in May 1978, the program has been offered three times. In total, 33 corpsmembers have participated. This report describes the results of the first program.

It is hoped that the findings described in this report will be of programmatic interest to the National Health Office and will provide a basis upon which better decisions can be made as to how to assist centers in preventing weight gain and facilitating weight loss among Job Corps enrollees.

chology and an avid interest in nutrition.

The program consisted of 7 weekly 1-hour sessions. Each session had specific objectives and planned activities. Lectures, activities and group discussions throughout the program focused on recording food intake and habit awareness, controlling environmental cues to eat, nutrition counseling, increasing physical activity, setting realistic goals and self-reward, and reinforcing and maintaining behavior changes. An enrollment limit was set at 15 participants.

During the orientation meeting (session one), an explanation was given to all interested corpsmembers of what a behavioral weight change program is—
its unique characteristics and how it differs from other weight loss methods.

In addition, they were asked to record their food intake for a week in order to decide better whether or not they could follow this program.

In session two, participants explored how their attitudes, beliefs and cultural patterns influence their eating habits. They were asked to continue recording their daily food intake in order to obtain a baseline of their normal eating behaviors.

In the third session, corpsmembers examined environmental cues which trigger eating and/or overeating, analyzed their eating habits and began to identify problem eating behaviors. Three "behavior change projects" were introduced to help participants reduce the impact of the environmental signals to est.

These included 1) scheduling eating times, 2) limiting eating places, and 3) practicing eating without any distractions. Each corpsmember was given a checklist to keep a record of his or her daily progress in changing the assigned behaviors.

Nutrition information as it relates to weight reduction and control was provided in the fourth session. There was opportunity for discussion of the three behavior change projects and a fourth project was introduced, that of

doing one thing each day to reduce the amount of food eaten. Center menus
for the following week were distributed to facilitate recording food intake.

Increasing physical activity was the general topic for the fifth session.

Participants were assisted in identifying ways to increase their energy
expenditure in their daily routines. They were encouraged to incorporate
into their daily living patterns exercise considered both safe and enjoyable.

A fifth and final behavior change project, walking a minimum of 15 minutes
each day, was introduced.

In the sixth session, participants reviewed their progress for each behavior change and were taught how to set realistic goals and to use self-reward
to reinforce positive eating and exercise behaviors. The seventh and last
session was devoted to a review of the program and a discussion of specific
strategies for maintaing appropriate behavior changes and weight loss.

Weights of participants were recorded at each session. The sessions were held in a room with comfortable chairs away from distractions to avoid possible interruptions.

Participants who completed the program was awarded certificates and special buttons which proclaimed "I WON! I LOST!" so as to give recognition.

This project used a nonexperimental one group, pretest, posttest design.

The 7-week weight control program, using behavior modification-based techniques was considered the treatment or independent variable. Participants' initial weights recorded at the program orientation (session one) served as the pretest measure while their weights recorded at the final session were the posttest measure. Given the hature of the center's environment (group living, openness, absence during home leave, turnover, etc.), a design with controls was not feasible. Nevertheless, this project was developed and implemented to provide a preliminary look at the effectiveness of the pilot weight control program.

Notices of the weight control program were posted around the center and in dorm lounges and announcements were made by R.A.s at dorm meetings. The counseling staff took an active role in informing other center staff of the program so as to gain support for and potential referrals to the program.

In order to register for the program, prospective participants were required to attend an orientation meeting (session one) where the course outline was explained by the instructors. Enrollees who were interested were weighed and given a food diary to be completed during the following week.

Recording food intake for one week was a prerequisite for admission into the program. During this week, individual interviews were conducted as an additional screening measure.

The participants in the pilot program were 15 of 21 corpswomen who attended the orientation session. Six corpsmembers decided not to participate after the first week. Individuals' weights were recorded at each session.

The initial weights of the 15 participants ranged from 125 to 230 pounds, with a mean weight of 171.3 pounds. Eleven corpswomen listed their goal weights.

For these eleven, the mean number of pounds overweight was 50.7 pounds, with a range from 23 to 86 pounds. The ages of all fifteen corpswomen ranged from 17 to 21 years with a mean age of 18.5 years.

### RESULTS

Of the fifteen corpswomen who elected to participate in the program, nine completed the course. This gives an attrition rate of 40%. Weight change data is reported only for those nine corpswomen who completed the program. The initial weights of the nine corpswomen ranged from 125 to 206 pounds, with a mean weight of 162.8 pounds. At the end of the seven-week program, the mean weight recorded for these participants was 160.0 pounds, indicating a mean weight loss of 2.8 pounds. Of the nine, seven loss weight (weight loss ranging from 1 to 8 pounds) whereas two gained weight (3 and 4 pounds respectively). (See Table 2)

#### DISCUSSION

The short-term goal of the pilot weight control program was that each participant would achieve a weight loss of 5 pounds at the end of the program. Setting an attainment level of weight loss at 5 pounds as a major goal of the program may not have been realistic given that weight change measured in absolute pounds is a biased masure which favors those who are more overweight and thus have mo. to lose. Nevertheless, at the end of the program, the average weight loss of the nine corpswomen was 2.8 pounds and four corpswomen did lose 5 or more pounds.

Weight Changes for 9 Participants Completing Pilot Weight Control Programe

Tongue Point Job Corps Center

|           | CASE       | AGE     | HEIGHT   | INITIAL<br>WEIGHT | GOAL<br>WEIGHT | SURPLUS.<br>WEIGHT | END<br>WEIGHT | (7 weeks | later) | TOTAL CHANGE |
|-----------|------------|---------|----------|-------------------|----------------|--------------------|---------------|----------|--------|--------------|
| , -       | 1          | 19      | 516ii    | 172               | 142            | 30                 |               | 176      |        | +            |
| <b></b> , | 2          | 19      | 51411    | 181               | 133            | 48                 | ,             | 174 '    | ٠.     | 7.           |
| , ,       | <i>3</i>   | 19      | 417911   | 125               | 98             | 27                 |               | 124      | • • •  | -1           |
| •         | . 4        | 19      | 51411    | 206               | 145            | 61                 |               | 198      | • • •  | - 8          |
| •         | 5          | 18      | - 5'7" - | 147               | . 124          | 23                 | •             | 150      | • •    | +3           |
| • *>      | · 6        | - 17    | 51211-   | 201               | . 115          | . 86               | •             | , 199 ·  |        | - <b>-</b> 2 |
| ::        | ` <b>?</b> | · 16 -: | 5'1"     | 130               | 105            | . 25               | -             | 127      | .3     | - 3          |
|           | 8          | 17      | 5111     | 135               | `110           | , 25               |               | 130      |        | <b>-</b> 5   |
| ~         | 9          | 21      | 5'3"     | 169               | 120            | <sup>9</sup> 49    | <br>          | 162 .    | ,      | <b>-7</b>    |

<sup>\*</sup>Reported in pounds
Participants were corpswomen who attended at least 6 sessions

Obviously, without a control group, it is not possible to say with certainty that weight loss resulted from participation in the pilot program; however, in terms of program outcomes, the results are encouraging and indicate that participation in a structured weight control program such as this pilot project can be a first step toward achieving weight loss.

The drop-out rate (40%) is not at all discouraging given that a range of 0 to 83% is reported in the literature (Hagen, Foreyt and Durham, 1976).

Ideally, a longer program with follow-up is necessary but it is not certain whether this is feasible given turnover, home leaves, etc. within the Job Corps setting. At the present moment, the Tongue Point Job Corps counseling staff is conducting a program on a drop-in basis similar to community programs such as Weight Watchers and TOPS. This may be a more cost-effective and practical method of conducting a weight control program in that it reduces administrating costs of interviewing and screening.

That corpsmembers are interested in weight control is certain. Personal history forms were distributed to all fifteen participants. Of these, eleven were completed and returned to the instructors. When asked to "Tell why you would like to lose weight at this time or keep from gaining weight," responses included personal, health and job-related reasons. Three corpswomen were concerned that their present weight would prevent them from being accepted into specific training programs. Two mentioned their inability to be active and mobile as factors contributing to their desire to lose weight. All respondents indicated feelings of low self-esteem associated with obesity and/or overweight. Typical responses were: "Because I feel uncomfortable; my appearance is just looking awful;" "I would like to build up my self-confidence;" "So I can feel better about myself, and if I lose weight, I will have a bet-

ter chance of getting the type of job I want; " and I need to lose weight because of job qualifications and because it's affecting my health both men and physically."

Low self-esteem may also be reflected in the fact that seven of the corpswomen who completed the questionnaire indicated that they had always been overweight as long as they can remember. Two of the seven had gained even more weight after coming to Job Corps. Two other corpswomen felt that their weight problems took place only after enrolling in Job Corps. Only one corpsmember indicated that she was interested in preventing weight gain from occurring in the first place.

It is a known fact that many youths come to Job Corps with low selfesteem. Feelings of being successful are often lacking even with weight
reduction efforts. All eleven corpswomen had tried to lose weight before
with little or no results. Those who had lost weight quickly. Given that
corpsmembers did lose weight, it is clear that participation in a structured
weight control program such as this pilot project, can be a means by
which corpsmembers achieve small successes in changing behaviors and losing
weight and thus increase self-esteem.

A program evaluation questionnaire was distributed to participants. Responses were very positive. All corpsmembers who returned the questionnaire felt that the program was worthwhile. When asked how the program had been helpful, most participants reported that it had made them aware for the first time of their problem eating behaviors and situations. Awareness is often the first step in behavior change. Several others remarked that their diets were more balanced; others suggested a program specifically designed to help them increase their physical activity.

In effective program for achieving weight control would attract and retain participants, assist them in losing weight and enable them to maintain weight loss at minimal expense of time and money. An additional desirable feature of an effective weight control program would be that it help participants develop skills to control eating and increase physical activity. The outcomes of this pilot project indicate that it meets the minimal requirements. It is suggested that a cursory-6-month follow-up evaluation be conducted to as-certain how many participants are still enrolled in Job Corps, how many have continued to lose weight and to determine what appropriate eating behaviors are being practiced as a result of having participated in the program.

It is recommended that the counseling staff present the results of this pilot project to Center staff and seek their participation in reinforcing weight reduction efforts among Job Corps enrollees. It is important that the present efforts in weight reduction not be isolated. There needs to exist a shared focus and coordination of resources and services among different departments at the center if weight reduction efforts and behavior changes in eating habits and physical activity are to be increased. While responsibility for change ultimately rests with each corpsmember, the Center can make a concerted effort to facilitate the change. The pilot weight control program offered by the counseling staff represents the first step.

#### RECOMMENDATIONS

The following recommendations were suggested by the Tongue Point Job
Corps Center counseling staff. Should the program be continued or initiated
at another center, it is advisable that these recommendations be implemented
for they prove the basis for ongoing improvement of the program. Where
appropriate, I have added comments and/or suggestions to those already made.

- 1. The RATE of eating was covered too briefly in the current weight control program. This subject needs more emphasis perhaps in the form of a practice project. (Specific intervention techniques can be employed to slow one's rate of eating. They include using chopsticks, putting down one's eating utensil between bites, counting to 20 between bites and purchasing and using a Water-Pik bite counter.)
- 2. The length of the sessions should be increased to one and one-half hours. The logistics of a session take a considerable amount of time and leave too little time remaining for the essence of the session. Also corpsmembers' enthusiasm and support of each other during the weigh-in are important.
- 3. The program could be lengthened. Currently, it is seven weeks. Perhaps ten weeks would be better. Other programs such as Weight Watchers, use 10-week programs. Since habit-changing is introduced in the third week, a longer reinforcement period is needed.

Another suggestion would be to keep the seven-week basic program, but have follow-up sessions. Undoubtedly, some continuation is absolutely necessary. (I would agree that continuation or follow-up is absolutely necessary. Is it possible, however, in the Job Corps setting?)

4. Use graduates of the program as assistants in either primary groups or follow-up groups or both. They can serve as models, positive reinforcement, and sources of suggestion. They could possibly be participants in follow-up groups and trainees in primary groups. It would be important to use the same person in one 7-10 week groups, as it would be disruptive to constantly change trainees. Having one person would help build up the trust level within the group. (A graduate of the first program served as an assistant for the second program.)



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- Screening procedures need revision. After the initial orientation session, set up individual appointments and, through interviews, determine an individual's commitment, attitude, probable attendance (discover whether they are due for home leaves, etc.), and percentage overweight. In this way, screening and "de-selection" are done before the group begins. Also, being selected from a larger group may lend a slight, competitive air to the weight control program and corpsmembers may value the group more, perhaps improving their attendance and motivation.
- 6. Limitations on group size are needed--either relatively small groups or a large group broken down into smaller groups. Possibly, int ested corpsmembers should be divided into three groups:
  - a. Basic weight control group
  - b. Follow-up group
  - c. Maintenance group including corpsmembers who are not overweight but fear weight gain; those who have completed a weight loss program, such as TOPS, Weight Watchers, etc., and wish to maintain their weight; anyone who wishes to learn weight control skills. This group could serve as a preventive measure as well as maintenance enforcer, and, as a sidelight, it may attract more men into the weight control program.

(As with any program such as this in the Job Corps setting, success in implementation depends, in large part, on the efforts of the staff and the time they have available).

- 7. Revisions should be made to the weight graphs. Ideally, graphs should reflect increases as well as decreases in weight. Also, instead of indicating an individual's actual weight at the top of the chart (for all to see!), perhaps the chart should start at 0 and mark ups and downs in weight. The person's actual weight should be a private matter.
- 8. Strategies for use when the corpsmember is on his/her own should be provided. Assertiveness training to aid in dealing with temptations is an important feature of a weight control program. Also, methods of manipulating the natural environment and an individual's behavior aid in maintenance of weight loss over a long period of time.
- 9. More adequate nutritional information is needed. Instead of eating certain foods because they are "good for you", corpsmembers should learn about what can happen when one is deficient in good dietary practices, etc. Some sort of calorie-counting system is also advisable to make individuals aware of the relative caloric content of foods.

- 10. Begarding menus. at Tongue Point we are using incomplete menus which only list the entrees, so corpomembers are writing on the menu what they are actually eating rather than merely circling the food items.
- The behavior change project checklist needs to be revised to allow for more feedback on a daily basis. For example, it might be better to oreak each day down into time blocks to allow partial reinforcement for the period rather than reflecting a day of total defeat (punishment).
- 12. Base the weight control program more on Richard Stuart's book, Act Thin, Stay Thin, using his ideas on modifying faulty thinking patterns and his theories on moods, their relation to sleep cycles and ultimate effect on eating behavior. (This book was published just after the pilot project's development was completed. It was included as a resource text. The goal of the program was to offer a limited number of very specific behavior changes. Certainly, many of Stuart's ideas can be incorporated)
- 13. Schedule meetings immediately prior to meals in order to allow participants to practice weight control techniques while still fresh in their minds. (This was implemented for the second program.)
- 14. Feedback on completed practice projects in the form of positive/corrective comments i.e. on behavior checklist forms, menus, etc. might serve a purpose within the program. (Again, how much time is available for individual counseling depends on the counseling staff's day-to-day workload.)
- 15. A class/instructor evaluation at the completion of the program could provide a valuable basis for continued program improvement. (This was planned for and subsequently provided.)

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# EVALUATION STUDY OF JOB CORPS VOCATIONAL TRAINING CURRICULA

Jane Melton

Office of Youth Programs Report Number 18
February 1979

### **OVERVIEW**

There are a range of excellent vocational materials which have been developed inside and outside of Job Corps. Vocational instructors in centers do not have the time or ability to review and assess these materials for their applicability. Hence, the Job Corps national office commissioned the following assessment which seeks to identify and rate available curricula in the nineteen major Job Corps training areas. This assessment could be useful to vocational educators and CETA classroom training operators who serve economically disadvantaged youth.

In fiscal 1979 and 1980, Job Corps will undertake a targeted effort to improve training and materials in those clusters which poor performance as measured by completion rates, placements, job-training models, and wages. New materials will be tested.

ROBERT TAGGART Administrator Office of Youth Programs

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### EXECUTIVE SUMMARY

This report was prepared by TEAM Associates, Inc., as a fulfillment of its contract with the National Office of Job Corps to conduct a search and evaluation of available curricula for nineteen vocational training courses. The report contains an introduction, a section detailing the research methodology, and a section devoted to findings and recommendations. The attached appendices contain specific findings and an itemby-item evaluation of materials. It is hoped that the appendices, especially the evaluative bibliography of materials, will be disseminated to regions and centers and will serve as an aid to locating the most effective curriculum materials available. Following are the preliminary findings from the search, and specific recommendations listed in a suggested order of importance when follow-up action is to be taken.

# Findings

- Few usable printed materials are available. Over three hundred items were reviewed, and only one hundred and five were chosen for further evaluation. Most of the printed curricula examined did not meet criteria that had been established for materials suitable for use with the disadvantaged.
- Many sources of audio-visual materials seem to be available. In fact, one index contains over one hundred thousand listings of audio-visual producers.
- Curriculum research and development centers do exist and will provide much helpful information, as is documented in this report.

## Recommendations

As a result of the preliminary findings from this search and evaluation of curricula, TEAM Associates recommends several follow-up steps which are listed below:

- That the Job Corps National and Regional Offices form task forces to develop curriculum kits in each vocational area. Content experts in each region could review materials—located from a search as well as materials, currently in use, to develop a more standardized, complete package.
- That Job Corps-centers be provided with technical assistance in the most effective use of new curriculum materials. This assistance could be of special help to those instructors who are new to Job Corps, in addition to providing a standard for proper and effective use of the materials.
- That Job Corps centers should field test selected materials.
- That further study on the appropriate use of audio-visual materials should be performed. More criteria need to be set for effective use of audio-visuals.
- That Job Corps centers be provided with technical assistance in developing their own audio-visuals. For example, slide programs on correct task procedures could be developed.
- That the Job Corps National Office establish a data bank of existing materials in use at centers, and that the data bank be part of an overall program evaluation and monitoring system.
- That the research methodology be altered for future work efforts.

The rationale for these recommendations is contained in the last sections of the report, "Findings and Recommendations."

### INTRODUCTION

Employment and Training Administration, to conduct a search and evaluation of available curricula for nineteen vocational training courses. These courses were chosen for study as a result of positive placement statistics. The specific purpose of the search was to identify programs which meet the needs of Job Corps, to evaluate their effectiveness as learning tools, and to discuss their utility in terms of corpsmember training.

The search was performed in response to several related needs. A primary reason for the search is to continue to provide the most innovative and effective training to individuals who must develop strong skills in the vocational training areas under examination. The search has a potential time-saving value for Job Corps center vocational instructors. It is imperative that Job Corps keep abreast of new curriculum developments in Vocational training. However, instructors whose primary responsibility is teaching often do not have time to contact publishers and review new materials. It is hoped that the evaluation of curricula appended to this report will be appropriately disseminated to the individuals whom the study was designed to assist - the Job Corps center vocational instructors and managers of training. It is also anticipated that this evaluation may be of special help to new center contractors in the start-up phase. A related reason for the search is that it may provide a further degree of standardization in vocational training course content at different Job Corps centers throughout the country. Currently, different contractors utilize curricula\_which vary in content, approach, and most importantly,

Tòo, standards for choosing curricula vary widely. Naturally, vocational training courses must be geared to suit the employment needs of the region, so that complete standardization would not be desirable or feasible. However, this study has established certain basic criteria for choosing course materials which can be applied in every Job Corps center and would ensure training effectiveness and impact across all programs. The information contained in the evaluation should provide general guidelines for selecting any other new materials. A final and very important reason for conducting the search is that it was performed as a result of a need expressed by vocational instructors throughout the regions. These instructors and managers voiced a desire for atternate curriculum materials which would be suitable for the majority of corpsmembers who are reading on a lower level than that contained in much of the current curricula. If such materials could be found, teachers could spend less time altering them to suit corpsmember needs and use the time for other instructional purposes.

This introduction has stated the rationale for the evaluation of materials in nineteen vocational training courses; the next section discusses research methodology. The section following contains findings of the search and recommendations. The attached appendices include summaries of pertinent data. The appendices were designed to be distributed to regions and centers. Appendix A is the evaluative bibliography of selected materials which are suitable for and available in the nineteen vocational areas.

Appendix B provides a list of individuals and firms contacted during the search. Appendix C is the material gathered from the ERIC search.

### II. RESEARCH METHODOLOGY

This section will describe the procedures followed in performing the search and evaluation of vocational training curriculum materials for nineteen selected courses. Procedures to be discussed include the following: needs assessment, source identification and review, and selection of criteria for evaluation of curricula.

### A. Needs Assessment

In the initial phase of this endeavor, TEAM Associates conducted a needs assessment. This analysis was performed to insure that all efforts by project staff were responsive to the needs of Job Corps. Of course, many requirements, such as the need for high-interest/low reading level material, had been previously identified, but project staff critically examined all needs prior to beginning the search.

In order to gather more relevant data, a representative of TEAM Associates visited Keystone Job Corps center in Drums, Pa., to talk with vocational instructors and managers about their needs. Mr. Ed Heimbach, manager, Education and Training, along with instructors at Keystone, felt that the teaching/learning process would be more effective if more materials on a lower reading level could be located. The visit to Keystone helped identify some of the materials currently in use at Job Corps centers, and some current problems and needs with regard to curriculum.

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B. Identification of Sources

The next step performed by TEAM Associates was the formation of contacts with vocational education programs and publishers (commercial and non-profit). TEAM Associates wrote, called, and/or interviewed many sources (see appendix B). Publishers catalogs had to be obtained and reviewed; materials were then selected for first hand examination and evaluation.

C. Criteria Selection

Before materials could be evaluated, criteria for selecting them had to be established. Webster lhas outlined a model for evaluating instructional materials which includes elements from the four basic evaluation frameworks accepted as the present state of the art: CIPP (1971), Scriven (1967), Stake (1967), and Provus (1971). The Webster model has provided evaluation guidelines for the study. TEAM Associates has followed this model as closely as possible, given the time frames. In brief, Webster's model focuses on context evaluation (information gained from basic and applied research and statistics obtained from prior use of the materials). Context evaluation, or needs assessment, has been performed by vocational instructors and TEAM Associates staff in diagnosing problem areas and identifying unmet needs. Certain general criteria, such as a low reading level for printed materials, and appropriate illustrations for young adults of difficult ethnic backgrounds, were central to the purpose of



William Webster, <u>The Evaluation of Instructional Materials</u>, Washington, D.C., <u>Association for Educational Communications</u> and Technology, 1976, pp. 2-6.

the evaluation. (For a complete list of criteria, see exhibit

Regarding input evaluation, TEAM Associates has used applied research information, such as information on types of students served, and basic research information in the field of learning and development to help set the criteria for materials evaluation. Basic research has shown, for example, that students and teachers perform more effectively when specific performance objectives are presented at each step of the learning process. One weak input area is that of product evaluation information. TEAM Associates has gained verbal assurances that a particular program has met certain goals, but no data to verify the assertions have been presented. It can be assumed that substantiating data have not been systematically collected and analyzed.

A final area of input evaluation is that of cost and availability of materials. TEAM Associates can provide this information per item for most of the materials; to provide a total cost figure, more information will be needed on the number of centers which require the materials.

TEAM Associates has compiled the materials evaluation results on forms entitled "Instructional Resource Checklist for Disadvantaged Vocational Students" (see exhibit 1). This form was developed by the staff of the University of Maryland Vocational Curriculum Research and Development Center. Six experts

in the fields of vocational-technical education and program evaluation designed the form in about two weeks. Due to lack of time needed to develop a valid evaluation instrument, TEAM Associates requested and received permission from the University of Maryland to use and modify this form. The form is structured so that teachers can readily compare existing materials with those in the bibliography, and can decide if the material would be suitable for use in a specific program. In addition, the form provides space for a detailed narrative description as well as recommendations for use. All materials included in the bibliography will be recommended as either "somewhat" or "highly" useful. In addition, the descriptions and comments include the following:

- Problem areas which might be encountered
- Suggestions on when and how to use
- Reading level, if available
- More detailed description of content and format

### D. Search Limitations

Several limitations became apparent as work progressed during the search for curricula; they should be noted here. First, as mentioned previously, a full comparison of existing materials was not possible due to the lack of data regarding those materials currently in use. However, TEAM Associates did receive feedback from the regions during the training sessions which support conclusions resulting from first-hand examination of existing curricula.

Next, the time limit of the search was restrictive, considering the scope of the project. Some publishers did not respond for four to six weeks from the date of the letter. Many individuals were out of town or on leave for the summer. Too, the number of sources available for each vocation are numerous. For example, three pages of sources were obtained from the IBEW Contact. There was not time to follow up on these sources.

In addition, the NICEM index put out by the University of Southern California is a four-hundred-page-index with approximately four hundred listings of audio-visual producers per page. When audio-visual materials and printed materials for nineteen vocations are being evaluated, the scope of the work effort becomes enormous. And because of the many sources of materials, effective curricula may have been overlooked and not included in the evaluation. Thus the firms listed in the bibliography are by no means an exhaustive listing of good sources; this study has explored some of the available sources of curriculum materials. As a result of these limitations, this report and attached appendices should be regarded as a preliminary identification and evaluation of vocational training materials.

#### III. FINDINGS

Due to the innumerable number of sources of materials, these findings should be regarded as a preliminary survey of available curricula and instructional resources. Many good sources, especially in the audiovisual area, have not been identified due to time limitations. In this section we will discuss general and specific findings, and finally, make recommendations for further study in this area.

#### Resource Catalogs

The current major thrust in vocational education is in the development and dissemination of catalogs of performance objectives, criterion-referenced measures, and performance guides for use in structuring vocational courses. This effort was made possible through V-TECS, the Vocational-Technical Education Consortium of States. V-TECS is a cooperative effort involving sixteen state divisions of vocational education, the Air Training Command, U.S. Air Force, and U.S. Naval Education and Training Command. Members are assigned particular course areas for catalog development. The Western Maryland Vocational Resource Center has catalogs available for dissemination.

More specifically, V-TECS is providing a base for the development of valid performance-based instructional programs. Such a program is designed to ensure that instructional content relates to the actual tasks performed on the job. There are three basic components of a performance-based instructional system: task analysis, performance objectives, and criterion-referenced measures.

 $<sup>^{1}</sup>$ All references to organizations are fully listed in appendix  $^{8}$ .

Task analyses provide a means of identifying what skills and knowledge are necessary for instructional pu:poses; a task analysis breaks down each task into its component skills and activities. Second, performance objectives designate which behaviors must be achieved for satisfactory job performance. Finally, criterion-referenced measures are the tools used to assess performance; they are activities which are based on the performance objectives. Job Corps does provide task analyses and performance objectives through its Occupational Training Guides and Training Achievement Records. Job Corps then designs Occupational Training Plans which contain specific activities to be performed. V-TECS materials would be helpful to teachers who are setting up their programs and who are designing Occupational Training Plans where none are available. They would also provide a structure for sequencing objectives and for dividing course content into manageable units and lessons. Courses for which V-TECS are available are listed in the bibliography under the "General" heading.

Other excellent general references for instructors are the Resource

Guides for Performance-Based Instruction, published by the University

of Maryland Vocational Curriculum Research and Development Center. The

guides are available in nine content areas (Auto Body, Auto Mechanics,

Carpentry, Cosmetology, Electricity, Machine Shop, Masonry, Graphic Arts,

Welding, Word Processing) and cost \$3.50 each. These reference books

contain much valuable information. Each includes a bibliography of printed

and audio-visual materials for content area. Order information, price,



and a narrative description/evaluation are included in appendix A of this report.

Each guide contains information on development of a performance-based instructional program as well as a section entitled "General Resources" which explains the ERIC system, lists curriculum development centers throughout the country, and contains a complete bibliography of sources. Dr. Gerry Day of the Maryland State Department of Education was a project director responsible for the development of the resource guides. Sarah Kryszak, reference coordinator, University of Maryland Vocational Curriculum Research and Development Center, is responsible for dissemination of guides. Further information is contained in the "General" section of the attached bibliography.

Another good reference source was obtained from the U.S. Office of Education, Division of Vocational-Technical Education. It is entitled <u>Vocational Instructional Materials for Students with Special Needs</u>. This is a computer printout of curriculum materials in all major vocational areas. The printout includes information on each item such as cost, source, content, and comments on possible use. The Job Corps occupational training guides are listed in addition to many other curriculum materials. The advantage of this catalog is that all materials listed are for students who have special needs. A disadvantage is that it is dated August 1972. Many materials have been developed in the past few years which would not be listed. On the other hand, the Resource Guides developed by the University of Maryland are not slanted specifically for use with disadvantaged students; thus some materials listed would not be suitable for use with corpsmembers.



#### Resource Centers

In addition, a National Network for Curriculum Coordination in Vocational and Technical Education (NNCCVTE) has been established by the U.S. Office of Education to provide an interchange of information on and sharing of vocational curricula. Six regions house curriculum management centers which provide services relating to curriculum and instructional materials. Addresses for these regions are listed in exhibit 2 under the NNCCVTE heading. The Western Maryland Vocational Resource Center also houses many vocational materials and has a catalog available. However, this resource center may be closing in the fall, and materials may be brought to the University of Maryland curriculum library.

#### Research Projects

TEAM Associates also had an ERIC search performed. The search had to be run several times before accessing relevant materials. Some of the information looks helpful; much of it is not. One project sponsored by the National Center for Education Research and Development (HEW) and performed by the Philadelphia, Pennsylvania School District looks particularly helpful. A field test was conducted to determine if entry-level competencies could be developed in vocational areas by means of individual sound-on-slide projectors. Results show that educable mentally retarded students, who read on a low level, learned "significantly better." Some of the content areas (nurses aide, auto mechanics, industrial electricity) appear to match those of Job Corps. In addition, several child-care aide curriculum materials have recently been developed. Several teacher resources are listed in the ERIC document also. Most of these are articles of general interest in the area of curriculum development.



#### Prepared Training Curricula

Let us take a further look at specific materials which were located.

First, Associated General Contractors of America, working in conjunction with the Oklahoma State Department of Education, has developed four sets of curricula, including students' and teachers' guides pertaining to the construction area: commercial carpentry, cement masonry, bricklaying and a general construction trades cluster, the latter developed for use with disadvantaged and handicapped students. Other manuals relating to auto mechanics and electronics have also been developed. Comments and further descriptions of these materials are contained in the bibliography. In general, these materials would be helpful to the new instructor who must design and sequence objectives and who needs a guide for related classroom instruction. Associated General Contractors (AGC) has donated a set of these materials for use with building trades courses to Job Corps and they are available for review. AGC would also send sample materials for preview to centers.

Next, the National Association of Home Builders has been working on a similar project of curriculum review and evaluation in the building trades areas. As of now, NAHB is developing the kits for selected centers. NAHB has reviewed many materials, especially related audio-visuals. They have designed curriculum kits for building trades instructors to field test and to critique. After gaining this input, the kits will be finalized and should be available early next year. This effort should be recognized for the invaluable assistance it will provide to Job Corps instructors in the building trades areas.

Other sources, such as state departments of vocational education and curriculum research centers, had task analyses and many curriculum guides available. But actual printed curricula useful to corpsmembers, including workbooks and texts, were difficult to locate. Most workbooks were to be used with a text on a twelfth grade reading level. For example, all of the welding texts found were on an advanced\secondary or college level; thus, these materials were not included as useful for Job Corps purposes. The same principle applies to many areas--especially those of cement masonry, electrical appliance repair, and heavy equipment repair. The one good source obtained on diesel repair contains an extensive listing of manufacturers and audiovisual aids for use in this area. The document was obtained one week before the due date for the report; further evaluation of these materials needs to be performed. Of those materials reviewed, the New Jersey and Delmar materials are consistent in their development of printed curricula which are suited to students with special needs.

The emphasis on related mathematical skills in the materials mentioned above coincides with an expressed need for more curricula in this area. Vocational instructors and managers at Job Corps centers have voiced a need for more instruction and practice in mathematical areas such as whole numbers and fractions. The Practical Problems in Mathematics series in the "General-Multiple Listing" section of the bibliography would be a good supplement for corpsmembers having difficulty in performing vocational tasks because of math deficiencies.

In view of the fact that so little seems to be available in terms of related printed classroom instructional materials, any information gained would be of value to all centers and should be shared. On the other hand, there is a plethora of audio-visual material available. Tool companies and appliance companies produce much good material, as do commercial audio-visual producers. And the NICEM index contains over one hundred thousand listings of audio-visual producers.

#### RECOMMENDATIONS

In light of these findings, let us proceed with recommendations which have arisen from the research effort. First, Job Corps has no record of materials currently in use. Without this information, program evaluation and materials assessment are extremely difficult to implement. Corps National Office could establish a data bank of materials in use for each course; this could be one element of an overall program monitoring and evaluation system. Next, since there is so much audio-visual material available, an entire study could encompass the proper use of these materials. More criteria need to be set for the use of audio-visuals at Job Corps centers. Too, Job Corps might consider making its own A/V material; some centers have been doing so, but a full scale effort to develop slide programs of correct task procedures, for example, might be undertaken. Job Corps might hire a contractor with a media specialist to develop certain audio-visuals. But a preliminary study should be done first to determine what type of A/V material is most effective in particular subject areas and when certain learning objectives are being applied (learning rules and principles vs. visual identification). Too, in order to ensure that new materials - print or audio-visual - are being used most effectively, the Department of Labor should provide technical assistance to the Job Corps centers. In addition, Job Corps should field-test these materials at selected centers before final approval.

A final recommendation would be to alter research methodology in future efforts to locate this type of curricula. For example, with so many available sources of audio-visual materials, a project which includes

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experts work with media consultants to evaluate materials in specific content areas. A project coordinator in Washington, D.C., could manage the work effort and compile results. If the above suggestion is not workable, at the very least, the project scope should decrease in size so that a broader sample of materials in each area can be adequately evaluated.

At this stage in the project, since some preliminary research has been done, content experts need to be drawn into the work effort so that curriculum kits for each vocation can be developed. The content experts could be Job Corps instructors in the specific areas. They could match required competencies with those included in the materials, delete material not required for entry-level skills, or add needed material to make a complete and more standardized package. This could be accomplished by task force within each region. In summary, our recommendations includes the following in an order of suggested importance:

- That Job Corps form task forces to develop curriculum kits.
- That Job Corps be provided with technical assistance in the most effective use of new curriculum materials
- That Job Corps should field-test selected materials
- Inat further study on appropriate use of audiovisuals materials should be performed
- That Job Corps be provided with technical assistance
   in developing its own audio-visuals

- That Job Corps establish a data bank of existing materials in use at centers
- That the research methodology be altered for future work efforts

# ENSTRUCTIONAL MATERIALS CHECKLIST FOR DESADVANTAGED VOCATIONAL STUDENTS

| <u> </u>   |  |                                       | د   |   | <u>.</u> |
|--|--|---------------------------------------|---|---|----------|
| TITLE OF MATERIALS   |  |                                       |   |   |          |
| DATE   | ,  |                                       |   |   |          |
| NAME<br>OF<br>DEVELOPERS   | · · · · · · · · · · · · · · · · · · ·                | · · · · · · · · · · · · · · · · · · · | -   |   |          |
| SUBJECT<br>AREA  | •  |                                       | ,   | ·   |          |
| ORDER INFORMATION  | · ·  | · .                                   |   |   |          |
| hardbound paper bound loose leaf other   | . <del>.</del>                                       |                                       | ILLUSTRATIONS line copy photographs charts/graphs black & white                                       | ,   | ,        |
| yearly replace materials none separate answe subject index bibliography/r performance of | consumable if er sheet provided references ojectives |                                       | MATERIAL READABI large print form double column co generous paragra high interest le low reading leve | at<br>py<br>ph spacing<br>vel                 | •        |
| student activistudent work student work serview question answer key                      | sheets   |                                       | FEATURES FOR DIS<br>ethnic groups me<br>develops self-wo<br>develops world o<br>develops craftsm      | aningfully do<br>rth concept<br>of work conce | epicted  |
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Exhibit 1 (cont.)

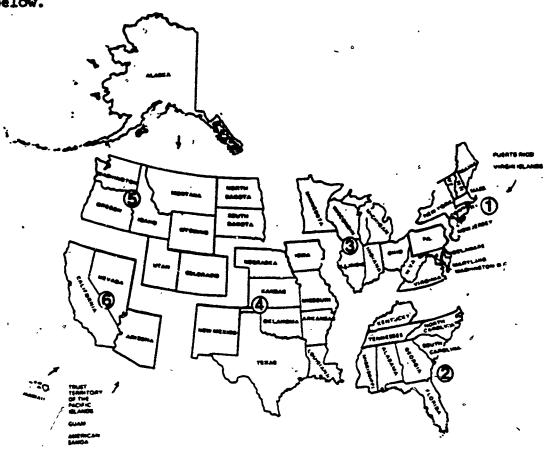
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### National Network for Curriculum Coordination in Vocational and Technical Education

Regional makeup has fallen into the breakdown of states depicted



- **Northeast Curriculum Coordination Center** Bureau of Occupational Research Division of Vocational Education 225 West State Street Trenton, New Jersey 08625
- 2 Southeast Curriculum Coordination Conter Mississippi State University Research and Curriculum Unit Drawer JW Measuppi State, Mississippi 39762
- 3 East Control Curriculum Management Co Minors Office of Education 100 North First Street: (E-426) Springfield, Illinois 62777

- Oklahome State Department of Vocational & Technical Education 1515 West 5th Avenue Stillweter, Oklahome 74074
- **Northwestern Curriculum Coordina Washington State Coordinating Council** for Occupational Education 222 Airdustriel Park / Box 17 Olympia, Washongton 98504
- **Western Currentum Coordination Con** Vocational Education Section Department of Education 721 Capitol Mali Secremento, California 95814

APPENDIX A

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#### INTRODUCTION

The following listing is a selected bibliography of available curricula—in the nineteen training courses under study. Each item in the bibliography is listed alphabetically by title in the appropriate section.

Each section is devoted to a vocational area — except for the section entitled "General-Multiple Listing," which contains materials applicable to more than one vocational course area.

Next, evaluative criteria are listed and have been checked where applicable. In addition, from the list of criteria, the instructor or resource person should be able to form a general idea about the suitability of the material for use with corpsmembers. Most of these criteria were established by a team of vocational education experts at the University of Maryland Vocational Curriculum Research and Development Center in College Park, Maryland. The second page of the individual evaluation contains a description of content, and offers comments and recommendations as to how the material can be used effectively, special problems that may be encountered, and contains the specific reading level, if available.

At the end of each section of vocational materials, an evaluation summary ranks the materials in that section according to possible <u>usefulness</u> with corpsmembers at a Job Corps center. It must be kept in mind that many excellent materials were excluded from this evaluation because of the level of difficulty. A primary criteria for inclusion in this listing was that the materials be on a level commensurate with that of a majority of corpsmembers.



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It is suggested that this listing be used as a preliminary survey of some available materials; the list is by no means exhaustive. Too, instructors and content experts should preview the materials with a critical eye. The investment, especially where audio-visuals are concerned, is large.

centers that need curriculum material and will also help existing centers by listing new materials that have recently become available. The criteria listed on the evaluation form should provide general guidelines for choosing materials for use at centers. These items, as well as the cost, should be considered before purchasing materials. For example, if the material has performance objectives, is there a fairly close match between those objectives and the ones listed on the Training Achievement Record? If there are no performance objectives, could objectives be written to suit the material? How large a task would it be, and who would do it? Too, the materials might be motivational for a middle class adolescent, but will they be suitable for use with minorities? Are minorities depicted or heard? If these criteria are used as guidelines for choosing materials, Job Corps should be purchasing curricula that works.

### .INDEX OF JOB TITLES

| Automobile Body Repairer       | 481              |       |
|--------------------------------|------------------|-------|
| Automobile Mechanic            | 495              |       |
| Automobile Mechanic Helper     | 509              |       |
| Baker                          | <sup>-</sup> 515 |       |
| Brick and Stone Mason          | 523              |       |
| Building Repairer              | 529              |       |
| Carpenter, Construction        | 539              | .,    |
| Cement Mason                   | 559              | 1     |
| Clerk, General                 | 565              |       |
| Clerk, Typist                  |                  |       |
| Cook                           | 591              | ,     |
| Electrician                    |                  |       |
| Electrical Appliance Repairer  | 615-             |       |
| Heavy Equipment Repair         | 625              |       |
| Keypunch and Verifier Operator | 631              | لرسسب |
| Nurse's Aide                   | 637              |       |
| Offset Press Operator          | 651              |       |
| Painter                        | 659              |       |
| Welder                         | 665              | ķ     |
| General - Instructor Aid       | 673              | •     |
| General - Multiple Listing     | 695 ,            | •     |

AUTOMOBILE BODY REPAIRER



## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| 1                        |  |                                | <u> </u>  |                |
|--------------------------|--|--------------------------------|---|----------------|
| TITLE OF MATERIALS       | Auto Body  |                                |   | v <del>o</del> |
| DATE                     | 1974   | . ·.                           | •   |                |
| NAME<br>CF<br>DEVELOPERS | Not Available  | ·                              |   | A .            |
| , ·                      |  | ` ,                            |   | •              |
| SUBJECT<br>AREA          | Auto Body Repair   |                                | \ .   | •              |
| ORDER                    | Oklahoma State Departm<br>Vocațional and Technic<br>Curriculum and Instruc | al Education<br>tional Materia | Ris Center  |                |
| INFORMATION'             | 1515 W. SIXTH AVE.   | tillwater. Okl                 | anoma /40/4   | <del></del> .  |
| MATERIA                  | L FORMAT   | ILLU                           | ISTRATIONS  |                |
| hardbou                  | nd   | lîne                           | сору  |                |
| y paper b                |  |                                | ographs   |                |
| loose 1                  |  |                                | ts/graphs   |                |
| other                    |  | blac                           | k & white   |                |
| `                        | -1   | cold                           | ir  |                |
|                          |  | ,                              |   |                |
| additio                  | mal budget required for  | , MAITE                        | RIAL READABILITY                                    | ,              |
| yearly                   | replacement V -  | _                              | · · · · · · · · · · · · · · · ·                     |                |
| materia                  | ils nonconsumable if   |                                | ge print format                                     |                |
| separat                  | te answer sheet provided   | a dout                         | ole column copy                                     |                |
| subject                  | index  | gene                           | erous paragraph spacing                             |                |
| bibliog                  | raphy/references   | nigr                           | n interest level<br>reading level                   | •              |
| X perform                | nance objectives ()  | ,                              | reading level                                       |                |
| X criteri                | on-referenced measures tactivities   | FFAT                           | TURES FOR DISADVANTAGED                             | STUDENTS       |
| _^_ Student              | work sheets  |                                | ,   |                |
|                          | questions  | etni                           | nic groups meaningfully<br>elops self-worth concep  | t *            |
| answer                   |  | devi                           | elops world of work concept                         | cent           |
|                          | 7  |                                | elops world of work come<br>elops craftsmanship com | cept           |
| INTENDE                  |  | •                              | TIMPS CITY COMMISSION COM                           | *              |
| X student                | Presource  |                                |   | •              |
| X teacher                | resource   |                                |   |                |
|                          | dual instruction.  | - 1                            |   | •              |
|                          | instruction  | l                              |   |                |

#### DESCRIPTION

Units of instruction have developed in the following areas: Safety/Orientation, Body and Frame Construction, tools, welding, metal repair, refinishing, air conditioning, circuity and wires, hardware, glass, and trim, and damage estimating.

The teacher's guide is \$20.00; the student's, \$10.00.

#### COMMENTS AND RECOMMENDATIONS

These instructional units are similar to curriculum materials developed jointly by Oklahoma and Associated General Contractors (see "General-Multiple Listing" section of bibliography). There is a question of how motivational they would be with corpsmembers, but they could be used as a supplement in related classroom instruction.

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|                                  |  | •  | •  |                                   |              |
|----------------------------------|--|--|--|-----------------------------------|--------------|
| TITLE<br>OF<br>MATERIALS         | Auto Bodý Refinishing  |  | 3  | ,                                 |              |
| DATE                             | June, 1970   | ,  | ,  | •                                 | ,<br> <br>   |
| NAME<br>OF<br>DEVELOPERS         | Leonard Colucci<br>Camden County Vocation                                  | al and Technical S   | Schools  |                                   |              |
| SUBJECT                          | Auto Body Repairer   |  |  | ,,                                |              |
| ORDER<br>INFORMATION             | Vocational-Technical C<br>Rutgers State Universi<br>Building 4103-Kilmer C | itv  | •  | \$4.25<br>AB-8                    | ] -          |
| MATERIAL                         | FORMAT   | ILLUSTRAT  | IONS——   |                                   |              |
| hardboun<br>paper bo<br>loose le | ound <sub>o</sub>  | line copy   X   phutograph   charts/graph   X   black-& when color | hs<br>aphs   |                                   | ,            |
| yearly material separate subject | raphy/references   | large pri<br>double co<br>generous                                 | lumn copy<br>paragraph sp<br>rest level                                      | pacing                            | ,            |
| criterio                         | key  | FEATURES ethnic gr develops develops                               | FOR DISADVAN<br>coups meaning<br>self-worth o<br>world of wor<br>craftsmansh | gfully de<br>concept<br>rk concep | picted<br>ot |
| x student<br>teacher<br>individ  | ,  | · ^ *legge   |  | ··                                |              |

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DESCRIPTION

Text discusses necessary equipment, and tools and material and the purposes for auto refinishing. Each unit also includes student activities and achievement tests.

COMMENTS AND RECOMMENDATIONS

Recommended to be used only with instructor assistance.

#### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

\_Auto Body Repair-1 OF MATERIALS

> DATÉ 1962

NAME John: E. Radvany

Marie H. Katzenbach School for the Deaf DEVELOPERS

SUBJECT Auto Body Repairer AREA

Vocational Technical Curriculum Laboratory

Rutgers University

Building 4103 - Kilmer Campus, New Brunswick, N.J.

MATERIAL FORMAT

ORDER!

INFORMATION

hardboundpaper bound

loose leaf

other

additional budget required for yearly replacement materials nonconsumable if

separate answer sheet provided subject index bibliography/references

performance objectives criterion-referenced measures

student activities student work sheets

review questions answer key

INTENDED U. E.

student resource teacher resource

individual instruction 'droup' instruction

**ILLUSTRATIONS** 

line copy photographs charts/graphs

black & white color

MATERIAL READABILITY

double column copy generous paragraph spacing high interest level

large print format

low reading level

ethnic groups meaningfully depicted develops self-worth concept

FEATURES FOR DISADVANTAGED STUDENTS

\$2.75

AR-8

develops world of work concept develops craftsmanship concept

#### DESCRIPTION

Book discusses in detail subject areas of -- Care of Shops and Tools ,materials and parts of the automobile, removal and assembly, refinishing, care of the finish, metal repair, and acelylene welding. The lessons, include objectives, materials needed, and an achievement test at the end of each unit.

## COMMENTS AND ECOMMENDATIONS

Text is a little too advanced for low-level readers. More suited for instructor as a supplement.



# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| •  | O  |
|--|--|
| TITLE<br>OF<br>MATERIALS   | Related Mathematics 1 Auto Body  |
| DATE   | 1974   |
| NAME<br>OF<br>DEVELOPERS   | E. A. Porroni Trenton Vocational and Technical High School   |
| SUBJECT<br>ARÉA  | Mathematics for Auto Body Workers  |
| ORDER<br>INFORMATION   | Vocational - Technical Curriculum Laboratory \$5.00 Rutgers University, Bldg. 4103, Kilmer Campus, No. AB-11 New Brunswick, N.J.   |
| MATERIA  | L FORMAT ILLUSTRATIONS   |
| hardbou<br>paper b<br>X loose l<br>other                                 | ound photographs   |
| yearly materia separat subject bibliog perform criteri X student student | high interest level    X   low reading level   7th grade     X   low r |
| individ  | ED AZE   |

#### DESCRIPTION

This text and workbook contains units on whole numbers, fractions, decimals, percentage, measurement, and ratio. Each lesson has a general objective, related information, and an assignment. Word problems related to the trade are included as well as drills.

## COMMENTS AND RECOMMENDATIONS

This is an excellent book. Students could use this book in basic math while they are enrolled in the trade. Strongly recommend.



## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE OF MATERIALS   | Supervised Study Guide for Related, Instruction  |
|--|--|
| DATE   | 1972   |
| NAME<br>OF<br>DEVELOPERS   | Troy Notgrass  |
| SUBJECT<br>AREA  | Auto <sup>n</sup> idy'Repairer.  |
| ORDER INFORMATION  | Instructional Materials Services Division of Extension, Univ. of Texas, Austin, Texas  |
| hardbou paper b loose l other  X addition yearly material subject biblion perform criterial students | photographs charts/graphs black & white color  mal budget required for replacement is nonconsumable if answer sheet provided index raphy/references raphy/references rance objectives replacement is nonconsumable if answer sheet provided index raphy/references rance objectives ra |
| teacher  | t resource r resource //ugl instruction instruction  |

#### DESCRIPTION

This guide contains assignment sheets, to be used as reinforcements of hands-on experience. The sheets contain performance objectives and knowledge questions. Two texts are used as a basis for the assignment sheets: Automobile Sheet Metal Repair and How to Control Auto Body Sheet Metals.

## COMMENTS AND RECOMMENDATIONS

The reading level is above that of most corpsmembers. However, the teacher might use this source as a guide to organize course curriculum.

| rer                 | 1  | +                       |                             | ļ -                         | FFECT                       |                         | ACT                     | LIVI                        | <br>ries                    | l                           | LLŲSI                       | K.                          | READ                        | ADIL                        |                             | DI                          | SADV                    | •                               | , L                             | SE.                                 |                                     |
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| efinishing          | •  |                         |                             | •                           |                             |                         |                         |                             |                             |                             | •                           |                             |                             | •                           |                             | ŀ                           | ļ                       |                                 | ,                               | •                                   |                                     |
| epair I             | •  |                         |                             | •                           |                             |                         |                         | •                           |                             |                             | •                           |                             |                             | •                           |                             | 1                           |                         |                                 |                                 | •                                   |                                     |
| h I - Auto Body     | . [  | N/A                     |                             | •                           | ;                           |                         | ,                       | •                           | ,                           |                             | •                           |                             |                             | •                           |                             |                             |                         |                                 | •                               | •                                   |                                     |
| Study Guide/Related | •  |                         |                             |                             | • .                         |                         |                         | •                           |                             |                             |                             | •                           |                             |                             |                             |                             | N/A                     |                                 |                                 | •                                   | ŀ                                   |
|                     | 1  |                         |                             |                             |                             |                         |                         |                             |                             |                             |                             |                             |                             |                             |                             |                             |                         |                                 |                                 |                                     |                                     |
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|                     |  |                         |                             |                             |                             |                         |                         |                             |                             |                             |                             |                             |                             |                             |                             |                             |                         |                                 |                                 |                                     |                                     |
|                     |  |                         |                             |                             |                             |                         |                         |                             |                             |                             |                             |                             |                             |                             |                             | `                           |                         |                                 |                                 |                                     |                                     |
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| ię :                | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \                  |                         |                             |                             |                             |                         |                         |                             |                             |                             |                             |                             |                             |                             |                             | İ                           |                         |                                 |                                 |                                     |                                     |
| 1                   | efinishing epair I h I - Auto Body Study Guide/Related | epair I h I - Auto Body | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body | epair I h I - Auto Body | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair I h I - Auto Body N/A | epair T h I - Auto Body | epair I h I - Auto Body N/A N/A | epair T h I - Auto Body N/A N/A | epair T h I - Auto Body N/A N/A N/A | epair I h I - Auto Body N/A N/A N/A |

ERIC 3" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,

174

AUTOMOBILE MECHANIC

495 -

-475

### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| * *          |  |
|--------------|--|
| TITLE        | Auto Mechanics I and II                        |
| · OF         | Nuco reclialitos i anu ii                      |
| MATERIALS    |  |
| <b>3.</b>    | •  |
| •            | Rev. 1976 and 1978, respectively.              |
| DATE         |  |
|              | Originally, 1971.                              |
| *            |  |
| NAME         | Not Available                                  |
| . OF         |  |
| DEVELOPERS   |  |
| DETECTION    |  |
| ₩ ,          | •  |
| CUD ITCT     |  |
| SUBJECT      | ļ ·  |
| AREA `       | Okrahoma State Department                      |
| •            | Vocational and Technical Education             |
|              | Curriculum & Instructional Materials Center    |
| ORDER        | LUTTICUIUM & INSCRUCTIONAL MACERIAIS CENTER    |
| *INFORMATION | 1515 W. Sixth Ave., Stillwater, Oklahoma 74074 |
| 21           |  |
| •            |  |
| MATERIA      | L FORMAT ILLUSTRATIONS                         |
|              |  |
| hardbou      | nd line copy *                                 |
| X paper b    |  |
|              |  |
| 100se 1      | ear charts/graphs                              |
| other_       |  |
|              | color  |
| <del></del>  | WATER AND REAL PROPERTY TAY                    |
| additio      | nal budget required for MATERIAL READABILITY   |
|              | replacement                                    |
| materia      | Is nonconsumable if large print format         |
| separat      | e answer :heet provided double column copy     |
|              | index \ generous paragraph spacing             |
| bibliog      | raphy/references high interest level           |
| Y perform    | ance objectiveslow reading level               |
| Y criteri    | on-referenced measures                         |
| Y student    | activities FEATURES FOR DISADVANTAGED STUDENTS |
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|              | Chillic di citi a meni indi a i i a cara       |
|              | questions develops self-worth concept          |
| X answer     | / develops world of work concept               |
|              | X develops craftsmanship concept               |
| INTENDE      | D A2F  |
|              |  |
|              | resource                                       |
|              | resource                                       |
|              | ual instruction —                              |
|              | nstruction \                                   |
| a            |  |

DESCRIPTION

Auto Mechanics I includes units of instruction on the following: orientation and procedure, measuring, engine suspension, and brakes. Book II includes units on engine overhaul, electrical, power train, and accessories.

1 3

COMMENTS AND RECOMMENDATIONS

These units are similar to those with the \*Curriculum Materials," in the section entitled "General-Multiple Listing"

,498<sub>,1</sub>

### INSTRUCTIONAL MATERIALS CHECKEIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| -              |                      | •                        | • '  | :                | 7                                     |                    |           | •          | •     |          |
|----------------|----------------------|--------------------------|--|------------------|---------------------------------------|--------------------|-----------|------------|-------|----------|
| ,              | •                    |                          | :  | ,<br>•           | • .                                   | •)                 |           |            |       |          |
| · 11           | TLÉ I                |                          | · <u></u>  |                  |                                       | ./                 |           |            | *     |          |
|                | OF !                 | Automotive M             | lechanics Se   | ries             |                                       | •                  |           |            | • •   |          |
| MATÉRI.        | ALS !                | •                        |  |                  |                                       | •                  |           | .          |       | •        |
|                |                      |                          | •  |                  |                                       | •                  |           | -          |       |          |
| · ;            | ATE .                | 1975-77                  | •  | •                |                                       |                    |           | - 1        |       | •        |
|                | ^1.5                 | 13/3-//                  |  |                  |                                       | •                  |           | ļ          |       |          |
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| ·. N           | ÀME                  |                          |  |                  |                                       |                    | •         |            | ,     | -        |
| ,<br>,         | OF                   |                          |  |                  |                                       |                    |           | 1          |       |          |
| DEVELOP        | EK2                  | <del></del> -            | , , , ,  |                  |                                       |                    |           | <u>4</u> 1 |       |          |
|                | •                    |                          | ,  |                  |                                       |                    |           | Ŕ          | ~ .   | ٠,       |
| SUBJ           | ECT I                |                          | • - <del></del>  |                  |                                       |                    |           | #          | *     | -        |
|                | REA                  | Auto Mechan              | 108  | ١                | •                                     | ,                  | r         |            |       |          |
|                | 1.                   | Bergwall Pr              | oductions  | •                | Order N                               | los. 401-          | 425       |            | •     |          |
| , ,            | DER                  | 839 Stewart              | Ave.   | •                | From \$6                              | 59.00 to           | \$138.00  | each       |       |          |
| INFORMAT       |                      | Garden City              | , N.Y. 1153  | 0 , .            |                                       | • '                | <b>\</b>  | İ          |       |          |
| TIII QIVI IN I | ٠٠٠ ـــ              |                          |  | •                |                                       |                    | 7         |            | •     | _        |
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| MAT            | TERIAL F             | ORMAT                    | <i>i</i> :   | ļ                | ILLUSTRAT                             | TIONS .            |           |            |       |          |
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| add            | ditional             | budget requi             | red for  |                  | MATEKIAL                              | KENDVOIL           | .411      |            |       |          |
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| Se             | parate a             | nswer sheet              | pepvideu   |                  |                                       | olumn cop          |           |            |       | •        |
| sul            | bject, in            | dex                      |  | <del></del>      | generous                              | paragrap           | h spaci   | ng         |       |          |
| , bii          | biliogkap            | hy/references            | s de la companya de l |                  |                                       | erest lev          |           | •          |       |          |
| , be           | rformanc             | e'objectives             |  |                  | low read                              | ing l <b>ev</b> el | ,         |            | •     | ~        |
| cr             | iterion-             | referenced **            | easures ·  | ` .              | EEATUDES                              | FOR DISA           | INVANTAG  | ED STU     | DENTS |          |
|                |                      | tivities<br>irk sheets   | 1  |                  |                                       |                    |           | •          | •     |          |
|                | Aiem dne             |                          | 1. 1.  | Υ                | ethnic g                              | roups/mea          | iningru i | ry dep     | ncted |          |
|                | swer key             |                          | 冠"   | 1′               | qevelobs                              | world of           | Fwork c   | oncepi     |       |          |
|                | •                    |                          |  | <del>_X_</del> ′ | develops<br>develops                  | craftsma           | inship c  | oncept     | •     | _        |
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| 7              |                      | ,<br>,                   | \$ . /   |                  |                                       |                    |           |            |       | •        |
| _/             | <u>_</u> `.          |                          | • /  |                  |                                       | •                  |           | •          | •     | <i>!</i> |
| el.            | -0£                  | , sé                     | /  |                  |                                       |                    | •         | •          | /     |          |
| • / -          |                      | 10                       | /  | 400 '            |                                       |                    |           | _          | /     |          |

-478

These filmstrip series are excellent materials, but each strip contains so much information that all but the most advanced corpsmembers might find them too difficult. No: 411 on Automotive Safety is especially good on demonstrating proper methods and use of tools. Some of the filmstrips which are narrower and more specific in scope might be more appropriate for use with corpsmembers, for examples \$416-423.

#### COMMENTS AND RECOMMENDATIONS

Especially recommend #416 to 423. These strips are narrow enough in focus not overwhelm the students, and some of them are useful with the beginner (i.e., lubrication, wheel balancing). These filmstrips give tips on diagnosing problems and solving them.

(See attached sheet for listing.)

Following is a list of available filmstrips in this series: #401 Igntion System Explained #402 How to Do a Major Engine Tune Up #403 Front End Explained #404 Hydraulic Brake System Explained #405 Internal Combustion Engine Explained #406 Automotive Cooling System Explained #407-Operation of the Fuel System Explained #408-Problems-of-the-Fuel-System-Explained #409 Problems of the Internal Compustion Engine Explained #410\_How\_to Overhaul an Engine: #411 Automotive Shop Safety #412 Automotive Clutch Assembly Explained #413 Automotive Standard Transmission Explained -#416 Lubrication Services #417 How to Balance Wheels #418 How to use a Drum Lathe #419 How to use a Value and Value Seat Refacer #420 How to Use Automotive Precision Tools #421 How to Overhaul a Carburetor #422 How to Diagnose Hydraulic Brake Problems #423 How to Serve the Cooling System

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## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE OF MATERIALS                              | Automotive Mechanic Serie                  | 5  |            |
|---|--|--|------------|
| DATE  | 1976 Rev.                                  |  | 69         |
| NAME  | Not Available                              |  |            |
| DEVELOPERS                                      |  |  | _1.        |
| SUBJECT I                                       |  | •  |            |
| AREA  | Auto Mechanics                             | •  |            |
| 00050   | DCA Educational Products<br>424 Valley Rd. | \$360.00   | ~          |
| ORDER   | Warrington, Pa. 18976                      |  |            |
| MATERIAL  | FORMAT                                     | , ILLUSTRATIONS  | · · ·      |
| hardbound paper bou loose lea X other           | ınd:                                       | line copy photographs charts/graphs black & white color  | * * *      |
| yearly rematerials separate subject bibliograms | iphý/references<br>nce objectives          | MATERIAL READABILITY  large print format double column copy generous paragraph spacing high interest level low reading level |            |
| student   | n-referenced measures<br>activities        | FEATURES FOR DISADVANTAGED   |            |
| student y review, qu answer ke                  | ey   | ethnic groups meaningfully develops self-worth concept develops world of work concept develops craftsmanship concept.        | ept        |
|   |  |  | - <u>.</u> |

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## COMMENTS AND RECOMMENDATIONS

Instructors may select portions of the series which their students are having the most difficulty with.

These aids can serve as reinforcements to hands-on experience.

Below is a list of transparency sets:

I The Fuel System \$28.00 II Engines 37.00 III Electrical System 47.50 IV Cooling System 21.00

IV Cooling System 21.00 V Glutch Assembly 9.50 VI Transmission 52.50 VII Rear Axle Assembly 39.00 VIII Reakes 29.50

IX Front End Assembly 61.50
X Wheels and Tires 23.25
XII Automobile Air 28.50
Conditioning

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## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|             |                     |  | ` <u> </u>   | , .          |
|-------------|---------------------|--|--|--------------|
|             | TITLE               | Basic Automotive Series  |  |              |
|             | OF                  |  |  |              |
| · · .       | MATERIALS           |  |  | ~ - *        |
|             |                     | A CONTRACTOR OF THE PROPERTY O |  | <del>۔</del> |
|             | DATE                | 1970   |  |              |
|             | J. C.               |  | ·  | <u>ა</u>     |
| 7           |                     |  |  |              |
|             | NAME                | Not Available  |  |              |
|             | OF                  |  |  | ٠.           |
| <u> </u>    | DEVELOPERS L        |  |  | ,            |
|             |                     |  |  |              |
| •           | - SUBJECT I         |  |  | -            |
|             | AREA                | Automobile Mechanic  |  | _            |
|             |                     | ***************************************  | \$9.45 - set of 9  |              |
|             | *                   | Delmar Publishers  | hooks  |              |
| <del></del> | ORDER               | Mountainview Ave., Albany  | N.Y. 12205 Order No. 0551-6                                |              |
|             | INFORMATION [       |  |  | -            |
| -           | ·                   |  |  |              |
|             | MATERIAL            | FORMAT   | ILLUSTRATIONS  |              |
| , , ,       | ٨,                  | •  | line and   | ۸,           |
|             | hardboun            |  | line copy   X   photographs (illustrations)                | 'n           |
| · •         | x paper bo          | und  | charts/graphs  | ,            |
| •           | loose le            | ed i   | black & white  |              |
| ٠           | oulei               |  | color  |              |
| 3.5° W      |                     |  |  |              |
| -           |                     | al budget required for   | MATERIAL READABILITY                                       |              |
| •           | yearly r            | eplacement   | X large print format                                       |              |
|             | material            | s nonconsumable if<br>answer sheet provided  | double column copy   |              |
| <i>:</i>    | separace<br>subject | index  | generous paragraph spacing                                 |              |
| * .         | bibliog             | aphy/references  | high interest level  |              |
| , .         | , perform           | ince objectives  | x low reading level  |              |
| , ·         | criterio            | n-referenced measures  | FEATURES FOR DISADVANTAGED STUDENTS                        | -`           |
|             | student             | activities \   | · · · · · · · · · · · · · · · · · · ·                      |              |
|             | student             | work sheets questions  | ethnic groups meaningfully depicted                        |              |
|             | answer              |  | develops self-worth concept develops world of work concept |              |
| .*          | GIISHE!             |  | X develops craftsmanship concept                           |              |
|             | INTENDE             | ) USE  | &V ACICIONS ALELENTINE                                     |              |
| -           |                     | •  | - \  | •            |
|             |                     | resource   | •  |              |
| •           | teacher             | resource   |  |              |
| •           | אַר זְיִסְרָיִר אַר | ual instruction  |  |              |
|             | group 1             | Dan Arriva   |  |              |

483

This set of booklets contains programmed instruction in auto mechanics.

The information is divided into small frames. Each frame concludes with a review question to aid student comprehension.

Also, a final review appears at the end of the text. The material is designed for students to learn at their own pace.

COMMENTS

RECOMMENDATIONS

The instructor could use the material in these books as a teaching guide. The material in the booklets should be sed as soon as possible after demonstration with students and experiential learning takes place. The only be used with students on or above a fourth grade learning level. The following booklets are available:

Automobile Engine
Fuel System
Differential System
Cooling and Exhaust System
Brake System
Steering System
Standard Transmission
Ignifion System

Lubrication System

## INSTRUCTIONAL MATERIALS CHECKLIST/ FOR DISADVANTAGED VOCATIONAL STUDENTS

|               |                                       |  | <del></del>     | • • •         |
|---------------|---------------------------------------|--|-----------------|---------------|
| TITLE         | Wheel and Steering Alignmen           | t  |                 |               |
| MATERIALS     | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · ·  |                 |               |
|               |                                       | •  | . [-            |               |
| ٠,            |                                       | •  | 1               | <del>-</del>  |
| DATE          | September, 1968                       | ₫  |                 |               |
|               |                                       |  | 1               |               |
|               |                                       |  | - B             | •             |
| NAME          | Leonard Colucci                       |  |                 |               |
| OF DEVELOPERS | Camden County Vocational an           | d lechnical School   |                 | • -           |
| DEVELOPER     |                                       | •  | , <del></del> ł |               |
|               | •                                     | - <sub>x</sub> -*  |                 |               |
| SUBJECT       | Auto Markonda                         | 1  |                 | 0             |
| AREA          | Auto Mechanic                         | •  |                 | , <del></del> |
|               | Vocational-Technical Curric           | ulum Laboratory  |                 |               |
| 00000         | Rutgers University                    |  |                 |               |
| ORDER         | Building 4103-Kilmer Campus           | \$3.50   | CII-150         |               |
| INFORMATION   | New Brunswick, N.J.                   | * *************************************  | 30 100          |               |
| •             | <b>\$</b>                             |  | 14              |               |
| MATERIA       | L FORMAT                              | ILLUSTRATIONS  |                 |               |
|               |                                       | •  |                 |               |
| hardbou       |                                       | line copy  |                 |               |
| paper b       |                                       | X photographs  | -               |               |
| loose l       | eaf °                                 | charts/graphs X black & white  | <b>.</b>        |               |
| · A other     | stapled                               | color  | •               | ć             |
|               |                                       |  |                 |               |
| additio       | nal budget required for               | MATERIAL READABIL  | ITY             |               |
| yearly        | replacement                           |  | •               |               |
| materia       | ds nonconsumable if                   | large print format   | <b>3</b> ±      |               |
| separat       | e answer sheet provided               | double column copy generous paragrap   | /<br>n chacing  |               |
| subject       |                                       | high interest leve   | i Spacing       |               |
| X 0101100     | raphy/references<br>ance objectives   | y low reading level  | • •             | •             |
| y perion      | ion-referenced measures               |  |                 | •             |
|               | activities *                          | FEATURES FOR DISAL   | DVANTAGED STU   | DENTS.        |
|               | work sheets                           | ethnic groups mean   |                 |               |
| review        | questions                             | develops self-wor  | th concept_     |               |
| answer        | key                                   | develops world of  | work concept    |               |
|               | 0 F                                   | X develops craftsman   | nship concept   | •             |
| ·, INTENDE    | ED USE                                |  | <del>-</del> -  |               |
| v etudoni     | t resource                            | •  | 4               | ¥.            |
|               | r resource                            | .*   |                 |               |
|               | ival instruction                      |  |                 |               |
|               | instruction-                          | and the same of th |                 |               |



Topics discussed are: Types of suspension systems, theory of wheel alignment, alignment equipment, caster angle, camber angle, steering axis inclination, toe, the-out on turns, tracking, and, tire and wheel balance. Each unit includes an objective and an assignment for students. ment for students. COMMENTS AND Recommended only as a supplemental text with instructor RECOMMENDATIONS

assistance.

AUTOMOBILE MECHANIC HELPER

## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| The state of the s |   |  |                 |
|--|---|--|-----------------|
| TITLE  | Auto Shop Safety  |  |                 |
| MATERIALS  | a   |  |                 |
| DATE   |   |  | •               |
| DEVELOPERS   | Not_Available   |  |                 |
|  |   | ,  | <u>,</u>        |
| SUBJECT<br>AREA<br>ORDER<br>INFORMATION  | Auto Mechanics  DCA Educational Product 424 Valley Rd. Warrington, Pa. 18976        | ts \$60.00   |                 |
| MATERIAL   | FORMAT  | ILLUSTRATIONS  |                 |
| hardbour<br>paper bo<br>loose le<br>y other  | pund:   | line copy photographs charts/graphs bleck & white x color                              |                 |
| yearly materia   | ial budget required for replacement is nonconsumable if answer sheet provided index | MATERIAL READABILITY  large print format double column copy generous paragraph spacing |                 |
| bibliog  | raphy/references<br>ance_objectives<br>on-referenced measures                       | high interest level  |                 |
| student  | activities<br>work sheets<br>questions  | ethnic groups meaningfully develops self-worth concept develops world of work conc     | depicted<br>ept |
| teacher  | resource  | Y describe cranging to come  | •               |
| X individ  | ual instruction   | ð  | •               |

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There are twenty multi-colored transparencies in this set on auto safety. The purpose of these aids is to help students develop work habits necessary for on-the-job performance. The set is designed for use with beginners. Topics covered are personal safety, tool safety, and chemical and fuel safety.

## COMMENTS AND RECOMMENDATIONS

The transparencies are easy to understand and would be suitable for use with corpsmembers just beginning their vocational training, as part of a general shop orientation. The instructors guide recommends that as a result of the a/v presentation, the class formulate its shop safety rules and enforce them. Although the vocational training program is individualized, new corpsmembers could receive this type of orientation in small groups.

| 4 |  | PERI                 | FORMA<br>ECT I V | NCE<br>ES | EF        | OST<br>FECT |   | S        | UPPI<br>IVI | IEŜ     | 11. | LUST    | R.       | REAL | ABIL    | LTY. |  | TURE |     | · OV  | ERAL<br>SE. | æ.       | . , . , |
|---|--|----------------------|------------------|-----------|-----------|-------------|---|----------|-------------|---------|-----|---------|----------|------|---------|------|--|------|-----|-------|-------------|----------|---------|
|   | Auto Hechanic/Helper   | $\mathbf{L}_{i}^{j}$ | 2 <sup>8</sup>   | 3         | 1         | 2           | 3 | ì        | 2           | 3       | 1   | 2       | 3        | 1    | 2       | 3    | 1  | 2,   | 3   | 1     | ۲,          | 3, .     |         |
| ÷ | 1. Auto Hechanics I & II   |                      | • .              |           |           |             |   |          | •           | ,       |     |         | •        |      | .•.     | ,    |  |      |     |       | •           |          | 7       |
|   | 2. Automotive Mechantes Series/Bergwall  |                      | Ν/Λ<br>~         |           |           | •           | ε | *        |             | •       | •   |         | 78       | 1    | n/a     |      | - ·  |      |     | ·     | a.          |          | 114.0   |
|   | .31 Automotive Mechanic Series/DCA   |                      | N/A              | -         | o .       | •           |   | ^        |             | •       | •   | •       | . :      |      | N/A     | •    |  |      | •   |       | •           |          |         |
|   | <ol> <li>Auto Shop Safety         (For Auto Mechanic Helper as well as Δuto Mechanic)</li> </ol> |                      | N/A              |           | •         |             |   |          | •           | ···     | •   | - (     | . ,      |      | N/A     |      |  |      | •   | •     |             | ·        |         |
| • | 5. Basic Automotive Series   |                      |                  | -         | •         |             |   |          | . •         |         | ٠,  | -       | •        | 1.   | •       |      | `  | N/A  |     |       | 7           | <b>-</b> |         |
| • | 6. Wheel and Steering Alignment  |                      |                  |           | ,•        |             |   | . °      | . •         |         | _   | •,      | -        |      | . •     |      |  | N/A  | ę,  |       | •           |          |         |
|   |  | 4                    |                  | ľ         |           |             |   |          |             |         |     |         | •        | -    |         |      | Mr.  |      |     |       |             |          |         |
| • |  |                      |                  |           |           |             |   |          | -           |         |     | ••<br>• |          |      |         |      |  |      |     | ,     |             |          |         |
|   |  |                      |                  |           |           |             |   | ,        |             |         |     |         |          |      | Ì       |      | •  | • •  | · , | ٠,١,٠ |             |          |         |
| _ |  |                      |                  |           | ,<br>     |             | , |          |             |         |     | ٠.      |          | ľ    |         |      |  |      |     | , ·   | .:          |          |         |
| - |  |                      | ,                | ١.        |           |             |   |          |             |         |     |         |          | \    |         |      | ٠  |      | اد  | . '   |             |          |         |
| • | 5  |                      |                  | 1         |           |             |   |          |             |         |     |         | ,        |      |         |      |  |      |     |       |             | •        |         |
| , |  |                      |                  |           |           |             |   | •        |             |         |     |         |          |      |         |      |  |      |     |       | . 5.        | ,        | . 5.    |
| • |  | Ļ                    |                  | <u></u>   | <u></u> ` | <u> </u>    |   | <u> </u> | _ a         | <u></u> |     |         | <u> </u> |      | <u></u> |      | <del>                                     </del> |      |     | ٠,    |             |          | ŀ       |

ERIC \*A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level, a "3" indicates "poor" or "not useful,"

BAKER .

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# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|  |  |                                  | ٠,٠           |
|--|--|----------------------------------|---------------|
| -TITLE F   | Mathematics for the Baker                            | r                                | •             |
| OF !   |  |                                  |               |
| MATERIALS  |  |                                  |               |
| ~ : : : : : : : : : : : : : : : : : : :  |  | •                                | • •           |
|  |  | •                                | ٠,            |
| DATE   | 1976   |                                  |               |
|  | •  |                                  |               |
| NAME   | Melvin Bogdany                                       |                                  | •             |
| OF I   | Middlesex County Vocatio                             | nal and Technical School         | _ `.          |
| DEVELOPERS   | induresex sources rocation                           |                                  |               |
|  |  |                                  |               |
|  |  |                                  | . ••          |
| SUBJECT :  | Baking Occupations                                   |                                  | * ·           |
| AREA   |  |                                  |               |
|  | y Tashidasi C  | uminulum Laboratory              | * -,          |
|  | Vocational - Technical C<br>Rutgers University Build | ing 4103 Kilmer Campus \$5.75    |               |
| ORDER .  | New Brunswick, N.J. 0890                             | 1,1,3                            | •             |
| INFORMATION  | New Brunswick, N.O. 0030                             |                                  |               |
|  | •  |                                  | •             |
| MATERIAL   | FORMAT .   | ILLUSTRATIONS                    |               |
| ,  | ,              |                                  |               |
| - hardboun   | d—   | X line copy                      |               |
| x paper bo   |  | photographs                      |               |
| loose le   | af   | X charts/graphs                  | .*            |
| other  | stapled  | X black & white                  |               |
|  |  | color                            |               |
| 34434400   | al hudget required for                               | MATERIAI READABILITY             |               |
| door Cion  | al budget required for eplacement                    | MAICKIN VENDADICIII              |               |
|  | s nonconsumable if                                   | large print format               | •             |
| Separate   | answer sheet provided                                | double column copy               |               |
| X súbject  |  | generous paragraph spacing       |               |
|  | aphy/references                                      | Wigh interest level              |               |
| performa   | nce objectives                                       | X low reading level 6th grade    | •             |
|  | n-referenced measures                                | TOTAL CONTRACTOR CTUS            | CUTC          |
|  | activities   | FEATURES FOR DISADVANTAGED STUD  | )EN12         |
|  | work_sheets  | ethnic groups meaningfully depi  | icted         |
| X review   | ·  | develops self-worth concept      | •             |
| X answer k   | · ·  | X develops world of work concept | <del></del> - |
| INTENDED   | USE  | develops craftsmanship concept   |               |
| V etudant  | resource   |                                  | ·             |
|  | resource   | •                                | ••            |
|  | al instruction                                       |                                  | -             |
|  | struction  |                                  | · · · · · ·   |
| The state of the particular and the state of | •  |                                  | •             |

ERIC Full Text Provided by ERIC

This workbook contains instruction and drill on the basic functions plus fractions, decimals, weights and measures, ratio, and business operations information. Related trade problems are included.

## COMMENTS AND

RECOMMENDATIONS

Excellent workbook, as it is written on an understandable level and does contain some drill.

## INSTRUCTIONAL MATERIALS CHECKLIST

## DISADVANTAGED VOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS | The How-to- Make-it Bakery Book                             | · * |
|--------------------------|---|-----|
| DATE                     | 1967  |     |
| NAME<br>OF<br>DEVELOPERS | Cy Sommer<br>Middlesex Vocational and Technical High School |     |

IBJECT AREA Baking Occupations: Vocational - Technical Curriculum Laboratory Rutgers University Bldg., 4103 Kilmer Campus \$5.25 ORDER No.-BA-19 New Brunswick, N.J. 08903 INFORMATION

MATERIAL FORMAT É hardbound line copy photographs \_paper\_bound charts/graphs loose leaf stapled black & white color additional budget required for MATERIAL READABILITY yearly replacement large print format materials nonconsumable if double column copy separate answer sheet provided generous paragraph spacing subject index high interest level bibliography/references \_low\_reading level 7-th---8th grade performance objectives criterion-referenced measures FEATURES FOR DISADVANTAGED STUDENTS student activities

ILLUSTRATIONS

ethnic groups meaningfully depicted review questions develops self-worth concept answer key develops world of work concept develops craftsmanship concept

INTEMDED USE x student resource teacher resource X individual instruction X group instruction

student work sheets

- 519 -

This book contains units on preparation of pies, cookies, cakes, doughs breads, etc. Each unit has many step-by-step photographs of the baking porcess. The text is fairly straight forward. Concise instructions written in performance terms are located beside the photographs.

### COMMENTS AND RECOMMENDATIONS

This book could be useful for disadvantaged students as visual content is high. However, reading level might be too high for some students.

|   |      |                |         |       | . · ·    | 7     | 2     | PER<br>UBJ | FORNI<br>ECT I \ | NC.<br>VES | E     | COST<br>FFEC | <b>.</b> | ·ACT           | UPPL<br>IVIT | ÎES  | ij       | LUST | Ř.     | REĄI  | DAB1L    | IIY     | FEA<br>DI | TURE<br>SADV | s/- |           | /ERAL          |            | ) (1) )<br>(1) )                      |
|---|------|----------------|---------|-------|----------|-------|-------|------------|------------------|------------|-------|--------------|----------|----------------|--------------|------|----------|------|--------|-------|----------|---------|-----------|--------------|-----|-----------|----------------|------------|---------------------------------------|
|   | Ba   | ker            | 7       |       | v v ** 6 |       |       | , 1.       | 2                | 3          | 1     | 2            | 3        | 1              | 2            | 3    | 1        | 2    | 3      | -1.,- | 2        | 3       | 1.        | 2            | 3   | 1         | 2              | <b>3</b> . | · · · · · · · · · · · · · · · · · · · |
|   | 4.   | Mathema        | tics    | for t | he Ba    | ker   |       |            | N/A              | 7 E 2 1    | , •   |              |          | •              |              |      | •        | ٠    |        |       | •        | •       |           | N/A          |     |           |                |            |                                       |
|   | 2.   | llow-To-       | Make-   | It Ba | kery     | Book  | -     | ,          | •                |            | •     |              | -        |                |              | •    | •        |      |        | -     | <b>•</b> | <u></u> | . ~       |              | •   | <u></u> : | •              | ا<br>الم   | ;<br>;<br>;                           |
|   |      |                | •       |       |          |       |       |            |                  |            |       |              |          |                |              |      |          |      |        |       | -        | ļ       |           |              | `   |           | 7.5            | , ,        | , , , / <sub>m</sub>                  |
|   |      | •              |         |       | ·        | •     |       |            |                  |            |       |              |          |                |              |      | ,        |      |        |       |          |         |           | ·            |     |           |                | / E        |                                       |
|   | ľ    |                |         |       |          |       |       |            |                  |            |       |              |          | :              |              |      |          |      |        |       |          |         | 📏         |              |     |           |                | . 3        | n Design                              |
|   |      |                |         |       |          |       |       |            |                  |            |       |              |          |                | •            |      |          |      |        |       |          |         |           |              |     |           |                |            | 5.5                                   |
| * · · · · · · · · · · · · · · · · · · · |      | . •            |         |       | •        |       |       |            | ,                |            |       |              |          |                |              |      |          | `    |        |       | Λ.       |         |           |              |     |           |                |            | (~;<br>a -                            |
|   |      |                | · · · · |       |          |       |       |            |                  | -          | } .   |              | -        | -              |              |      |          |      |        |       |          |         | -         |              |     |           | ,, <del></del> | -:         | =                                     |
|   | ·    | _              |         |       |          |       |       |            |                  |            |       | ١.           |          |                |              |      |          |      |        |       |          |         |           |              |     |           |                |            |                                       |
|   |      |                |         |       |          |       |       |            |                  |            |       |              |          |                |              |      |          |      |        |       | `        |         | •         | `            |     | ٠         |                | :          | · -                                   |
| 521                                     |      | . ,            |         | -     |          |       |       |            |                  |            |       | \            |          |                |              |      |          |      |        | ŀ     |          |         | ·         | ·            |     |           |                |            | ;                                     |
| 1.                                      |      |                |         |       |          |       |       |            |                  |            | 1-    |              | †        |                |              |      |          |      |        |       |          |         |           |              |     |           |                |            |                                       |
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|   |      | •              | -       |       |          | •     |       |            |                  |            |       |              | \        | A <sub>3</sub> |              |      |          |      |        |       |          |         |           |              |     |           |                |            |                                       |
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| The s                                   |      |                |         |       |          |       |       |            |                  |            |       |              |          |                |              |      |          |      |        |       |          |         |           | *            |     |           | _              |            | :                                     |
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| ERIC                                    | a"3  | " indicat      | es "p   | oor"  | or "n    | ot us | eful. | lictb      | ıuı .            | , 4        | . 4   | ring 10      | utes     | <b>.</b>       | all8         | Lace | or A     | TEAG | 1,     | •     |          |         |           |              |     |           | ٠.             | ٠.         | ٠,                                    |

BRICK AND STONE MASON



These two series contain basic trade information in an interesting and colorful format. Content includes visuals on tools, common mortar joints, spreading the mortar, laying to a line, plumb bobs, foundations, stone cutting, setting stonework, etc. Fifteen transparencies are in group one; 7 are in group two. Four of the transparencies contain overlays that include terminology to match the visual; otherwise, this is included on the visual.

### COMMENTS AND RECOMMENDATIONS

These transparencies are suitable for use with beginners who are familiarizing themselves with the trade. An advantage is that they could be used with a corpsmember who has difficulty in reading, in addition to serving as a useful aid for all students. Instructors could use these with small groups of students, or even as individual study aids prior to tests. The transparencies could be very useful in a vocational program.

## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|   |  | •  |
|---|--|--|
| TITLE<br>OF<br>MATERIALS  | Masonry  |  |
| DATE  | 1977   |  |
| NAME<br>OF<br>DEVELOPERS  | John J. Richards<br>Blaine M. Harteg   |  |
|   |  |  |
| SUBJECT<br>AREA<br>ORDER<br>INFORMATION   | Brick/Stone Masonry  DCA Educational Products 424 Valley Rd. Warrington, Pa. 18976   | \$210.00   |
|   |  |  |
| MATERIA   | L-FGRMAT   | ILLUSTRATIONS  |
| addition yearly X materia Separat X subject bibliog perform X criteri X student X student | ound eaf 12 filmstrips 12 cassettes study quide nal budget required for replacement 1s nonconsumable if e answer sheet provided index raphy/references ance objectives on-referenced measures activities work sheets questions key | line copy photographs charts/graphs black & white X color  MATERIAL READABILITY  large-print format double column copy generous paragraph spacing X high interest level low reading level  FEATURES FOR DISADVANTAGED STUDENTS ethnic groups meaningfully depicted develops self-worth concept X develops world of work concept develops craftsmanship concept |
| X student   |  |  |
| X individ   | resource<br>ual instruction<br>nstruction  |  |

These materials are divided into four groups of related topics, with each series progressing in difficulty. For example, skill development progresses from identification of hand tools to component replacement. The four basic groups include information on the following topics: tool equipment and service safety, ACR tubing, problem diagnosis (access valves, guage manifolds, system analysis), and servicing of systems, including replacing, evacuating, and charging components.

A Study Guide is included in the packet, which includes a written script for each tape and a student worksheet, designed to be completed on a separate sheet of paper. The worksheets contain objectives written in behavioral terms and content questions that ask the student to explain service processes.

### COPPLENTS. AND RECOMMENDATIONS

The script is written using performance terminology (insert, strike, bend, etc.) and is clear and direct. However, the procedures outlined on each filmstrip are detailed and complex. The instructor could use these audio-visual materials as aids and reinforcements to hands-on experience; the corpsmember should be introduced to new procedures through instructor demonstration. The filmstrips are designed for individual instruction; thus the instructor could have the corpsmembers use the worksheets as a study tool for a test, or for quiz purposes. The corpsmember who cannot read on a fourth to fifth grade level could be tested orally for comprehension. These materials are more useful than much available curricula; they contain performance objectives and ways to measure learning that takes place.

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|-----|--------------------|-------------------------|------------------|-----------|--------------|------------------|-----------|-----|---------------|---|-----|------------------|-----|---------|------|----|----------|----------|------|------|--------------|-----|----------|---------------|-------|
| ,   | Brick and          | Stone Mason             | rÿ               |           | $\mathbf{i}$ | 2                | 3         | 1   | 2             | 3 | 1   | 2                | 3   | 1       | 2    | 3  | 1        | 2        | 3    | 1    | <b>v2</b> ,  | 3   | ji.      | . 2           | 3     |
|     | d. "Bříd<br>"Stone | s and Block<br>Masonry" | s <sup>(i)</sup> |           |              | N/A              | 3 .       | •   | 7             |   |     |                  | •   | • ,     | -    |    | •<br>(11 | igh      | Inte | rest | N/A          |     | •        |               |       |
|     | 2. Masoni          | y (Brick/Sto            | one)             |           | •            |                  |           | •   |               |   | •   |                  |     | .:      |      |    | •(H      | igh      | nte  | rest | •            |     | •        |               |       |
|     |                    | •                       | .,               | • • •     |              |                  |           |     |               |   |     |                  |     |         |      |    | ,        |          |      |      |              |     |          | <i>:</i> , .  |       |
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|     | , a final          |                         |                  |           |              |                  |           |     | × ×           |   |     | •                |     |         |      |    |          |          | ••   |      | ,            |     |          |               | 2     |
|     |                    | 4.<br>                  |                  | ه دید سسی | H            |                  |           |     |               |   | -   |                  |     | ~       |      |    |          |          |      |      | ₹ <b>-</b> - |     | - ,      |               |       |
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BUILDING REPAIRER





## INSTRUCTIONAL MATERIALS CHECKLEIST FOR DESADVANTAGED VOCATIONAL STUDENTS

| En la company of the |  |
|---|--|
| OF Building Maintenance   |  |
| DATE -1971-   |  |
| NAME Raymond E. Pearson OF Salem County Technical Ir  | nstritute  |
| SUBJECT Building Repairer   |  |
| ORDER Rutgers-State University  | riculum Laboratory<br>, Building 4103-Kilmer Campus  |
| MATERIAL FORMAT   | ILLUSTRATIONS  |
| hardbound paper bound loose leaf X other stapled  | line copy photographs X charts/graphs black & white color  |
| additional budget required for yearly replacement materials nonconsumable if  | MATERIAL READABILITY large print format  |
| separate answer sheet provided  X subject index  bibliography/references  X performance objectives  | double column copy generous paragraph spacing high interest level low reading level  |
| criterion-referenced measures student activities student work sheets  | FEATURES FOR DISADVANTAGED STUDENTS  |
| review questions<br>answer key  | <pre>N/A ethnic groups meaningfully depicted     develops self-worth concept     develops world of work concept     develops craftsmanship concept</pre> |
| INTENDED USE.   | develops characteristic consept  |
| x teacher resource individual instruction group instruction   |  |

ERIC

The course outline describes all necessary skills needed in the job of building repair as well as material needed.

COMMENTS AND RECOMMENDATIONS

Not recommended for vocational trainees; however, would be helpful to instructor.



## INSTRUCTIONAL MATERIALS CHECKLIST

#### DISADVANTAGED VOCATIONAL STUDENTS

|            | ` ;        | · · · · · · · · · · · · · · · · · · ·      | - x * . |             |   | •  |
|------------|------------|--|---------|-------------|---|----|
| TITLE      |            | Building Services<br>Glossary of Key Hords | 5       | •           | • |    |
|            |            |  | ٠       | •           |   | •• |
| DATE       | <b>*</b> - | Not Available                              |         |             | • |    |
| NAME       |            | Not Available                              |         |             |   |    |
| DEVELOPERS |            |  |         | <del></del> | · |    |
| 7          |            | • • • •                                    |         | •           |   | :  |

SUBJECT Building Maintenance AREA Vocational Technical Curriculum Laboratory Rutgers University Bldg. 4103 Kilmer Campus No. EN 907 ORDER New Brunswick, N.J. \$3.00 INFORMATION

MATÉRIAL FORMAT X line copy hardbound: photographs paper bound loose leaf other in a binder color additional budget required for yearly replacement materials nonconsumable if large print format separate answer sheet provided subject index bibliography/references performance objectives criterion-referenced measures FEATURES FOR DISADVANTAGED STUDENTS student-activitiesstudent work sheets review questions answer key INTENDED USE

**ILLUSTRATIONS** 

charts/graphs black & white MATERIAL READABILITY

double column copy generous paragraph spacing high interest level low reading level 3rd to 4th grade,

Fethnic groups meaningfully depicted dévelops self-worth concept develops world of work concept develops\_craftsmanship-concept

533

X. student resource X teacher resource

X group instruction

X individual instruction

This booklet contains the key words used in the building maintenance occupations. Each word is simply defined and is used once it a simple sentence. A picture illustrates each term. The purpose of this glossary is to improve the students comprehension of technical terms used in the trade.

## COMMENTS AND RECOMMENDATIONS

Instructors will find this glossary very helpful in orienting the new student to the basic terminology of the trade. The glossary could be used as a reinforcement of concepts presented by the instructor. The introduction contained in the glossary provides several creative ideas for its use.

## DISTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| The same of the sa |   |  |            |
|--|---|--|------------|
| MATERIALS  | Using Hand Tools, Parts   | 1 and 2  |            |
| DATE   | 1975  |  |            |
| NAME<br>OF<br>DEVELOPERS   | William Ronan   |  | ٠          |
| SUBJECT<br>AREA<br>ORDER<br>INFORMATION  | Building Trades Occupated Maintenance Milliken Publishing Co. 1100 Research Blvd. St. Louis, Mo. 63132                        | Order No.TDT 22 and 23 \$9.95 each   | -          |
| MATERIAL hardbound X paper bou loose lea X other Tr  | nd .  | ILLUSTRATIONS  line copy photographs charts/graphs black & white X color   | •          |
| yearly re<br>materials<br>separate<br>X subject i<br>bibliogra<br>performan  | I budget required for placement nonconsumable if answer sheet provided ndex phy/references ce objectives ereferenced measures | MATERIAL READABILITY  large print format double column copy generous paragraph spacing high interest level X low reading level | - <b>.</b> |
| - X student a  | ctivities<br>ork_sheets<br>estions<br>y   | ethnic groups meaningfully depict develops self-worth concept develops world of work concept X- develops craftsmanship concept |            |
| X student r  | esource<br>esource<br>1 instruction   |  | •          |

These books each include 16 transparencies 12 duplicating pages and teacher's guides. The transparencies focus on the safe and correct method of using hand tools, such as hammers, screwdrivers, chisels, rules, squares, snips, pliers, wrenches, files, handsaws and hacksaws. The duplicating pages are student study guides with fill-in-the-blank questions.

## COMMENTS AND RECOMMENDATIONS

These books are excellent, low cost, permanent resources that can serve as a supplement to and reinforcement of the learning process. The instructor could review the study guides orally with non-readers.



| Jane & Barrell Brown         | PER<br>OBJ | FORMA<br>ECTIV | NCE<br>ES | É, | COST<br>FFECT | • | AC | LIATI | IES    | I | LLUS1 | r. | RĒAI | DABI  | LITY       | FE/  | TURE<br>[SADV | s/<br>· | . QV | ERAI<br>SE. | ĻĻ |
|------------------------------|------------|----------------|-----------|----|---------------|---|----|-------|--------|---|-------|----|------|-------|------------|------|---------------|---------|------|-------------|----|
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| . Building Maintenance       |            |                |           |    |               |   |    | N/A   | ·<br>— |   | _     | ·  |      | ٠,    | <u> </u> - |      |               |         |      | · .         |    |
| . Building Services/Glossary |            | N/A            | •         |    |               |   |    | N/A   |        | • |       |    |      |       |            |      |               |         |      |             |    |
| . Using Hand Tools           |            | N/A            | ŕ         | •  |               |   | •  | -     |        | • |       |    | (H   | tgh . | înțe       | rest | N/A           | ,       | •    |             | ۰  |
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<sup>\*</sup>A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level, a "3" indicates "poor" or "not useful."



CARPENTER, CONSTRUCTION



## INSTRUCTIONAL MATERIALS CHECKLIST DISADVANTAGED VOCATIONAL STUDENTS

| OF              | Carpentry 1: | House         | Framing | <u>.</u> |   |     |   |
|-----------------|--------------|---------------|---------|----------|---|-----|---|
| MATERIALS       | :            |               | •       |          | • |     |   |
| DATE            | 1975         | •             | , ,     |          |   | - • | • |
| NAME            | Anthony A. I | <br>Nittoli : | ,<br>•  | •        | , | κ,  |   |
| OF<br>EVELOPERS |              | •             |         | ٠.,      | , | • , |   |

| SUBJECT   | Construction  |                  |     |
|-----------|---|------------------|-----|
| ORDER     | Vocational - Technical Curriculum La<br>University Building | boratory, Rutger | s _ |
| FORMATION | 4103 Kilmer Campus, New Brunswick, N                        | 1.J \$3.50       |     |

MATERIAL FORMAT hardbound line copy paper bound loose leaf other color additional budget required for MATERIAL READABILITY yearly replacement materials nonconsumable if large print format separate answer sheet provided subject index bibliography/references low reading level

performance objectives criterion-referenced measures student activities student work sheets review questions

INTENDED USE

answer key

student resource teacher resource individual instruction group instruction

ILLUSTRATIONS .

photographs > charts/graphs black & white

double column copy generous paragraph spacing high interest level

FEATURES FOR DISADVANTAGED STUDENTS ethnic groups meaningfully depicted

develops self-worth concept develops world of work concept X develops craftsmanship concept

This book is devoted to wood frame construction of houses. Units contain an objective, related information, an assignment and questions. Some assignments are based on drawings and graphs in the book; some are related "hands on" tasks. Units include: sills, girders, joists, sub-flooring, ceiling and roof, safety, etc.

### COMMENTS AND RECOMMENDATIONS

The book has many drawings and graphs which are easy to understand. Written information is precise and to the point. The instructor could use this as a course supplement, giving assignments to individuals, or he could use it with a group, going over the information and questions orally.

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL TUDENTS

|  | and the second of the second o | <u>Section to the section of the secti</u> |
|--|--|--|
| TITLE<br>OF<br>MATERIALS   | Residential Carpentry (V   | ocational Trade and Industrial ducation)   |
| DATE   | 1973   |  |
| NAME<br>OF<br>DEVELOPERS   | Wayman R. Penner<br>State Department of Voca   | tional and Technical Education   |
| SUBJECT<br>AREA  | Carpenter  |  |
| ORDER  | State Department of Voca<br>Stillwater, Oklahoma 74  | tional and Technical Education   |
| MATERIA  | FORMAT   | ILLUSTRATIONS  |
| hardboul<br>paper be<br>X loose loother                              | ound   | line copy y photographs X charts/graphs X black & white color  |
| yearly materia separate subject bibliog X perform criteria X student | raphy/references  ance: objectives. on-referenced measures activities work sheets questions  | MATERIAL READABILITY  large print format double column copy generous paragraph spacing high interest level low reading level  FEATURES FOR DISADVANTAGED STUDENTS  A ethnic groups meaningfully depicted develops self-worth concept develops world of work concept  |
| X teacher  | resource<br>resource<br>ual instruction<br>nstruction  | develops craftsmanship concept   |

Manual includes 12 sections which consist of instructional units. The unit gives behavioral objectives, suggested activities for instructor and students, information sheets assignment sheets, visual aids, tests, and answers to the tests.

### COMMENTS AND RECOMMENDATIONS

This manual would be helpful to the instructor, as it is very detailed :- but would be of aid only to more advanced corpsmembers.

## INSTRUCTIONAL NATERIALS CHECKLIST-FÖR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE  | Construction - Cluster Guide   |  |
|--|--|--|
| MITERIALS  |  |  |
| ••   |  | _  |
| DATE   | 1973.  | ,  |
|  |  | j  |
| NAME<br>OF   | M. LeRoy Reynolds, Project Director  |  |
| VEL OPERS  |  | ·  |
| , l  | *  | •  |
| SUBJECT AREA   | Building Trades Occupations  | •  |
| · ·  |  |  |
| ORDER  | Central Michigan University  |  |
| DRMATION   | Mt. Pleasant, Mich, 48859  |  |
| • •  |  | · ·  |
| MATERIAL P   | FORMAT ' ILLUSTRATIONS   |  |
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| paper boun loose leaf other additional yearly reputational subject in bibliograp performance criterion student ac student we   | photographs charts/graphs black & white color  MATERIAL READABILITY  Placement Insurer sheet provided Index  | AGED STUDENTS<br>ully depicted<br>ncept            |
| paper bound loose leaf other additional yearly reputational subject in bibliograph performance criterion student ac student we review que answer key   | photographs charts/graphs black & white color  MATERIAL READABILITY  Placement Indicated the provided in the p | AGED STUDENTS<br>ully depicted<br>ncept<br>concept |
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| paper boun loose leaf other additional yearly represent as subject in bibliograp performance criterion student ac student we review que answer key ENTENDED U  | photographs charts/graphs black & white color  MATERIAL READABILITY  Placement Income with the color  MATERIAL READABILITY  MATERIAL | AGED STUDENTS<br>ully depicted<br>ncept<br>concept |
| paper boun loose leaf other additional yearly rep materials separate a subject in bibliograp performance criterion student accurate que answer key INTENDED U student reteacher  | photographs charts/graphs black & white color  MATERIAL READABILITY  Placement Income with the color  MATERIAL READABILITY  MATERIAL | AGED STUDENTS<br>ully depicted<br>ncept<br>concept |

ERIC

This hook contains task analysis information. It also includes instructional task modules (similar to Occupational Training Plans) in the Building Maintenance and Residential Construction areas. The modules include performance objectives for each task and suggested instructional methods and materials.

#### COMENTS AND RECOMMENDATIONS

These guides may be helpful to new instructors.
The guides would need to be checked to determine what concurrent material is contained in the Training Achievement Records.



## DISTRUCTIONAL MATERIALS CHECKLIST

DISADVANTAGED YOCATIONAL STUDENTS

TITLE Marking, Measuring, Layout, Checking, Sawing Tools OF MATERIALS 1975 DATE Russell D. Wells NAMÉ EVELOPERS SUBJECT Building Trades Occupations - Carpentry, Bricklaying, AREA

. No. TDT 131 Milliken Publishing Co. ORDER' 1100 Research Blvd., St. Louis, Mo. 63132 \$9.95 INFORMATION

Building Maintenance

MATERIAL FORMAT

student resource teacher resource

individual instruction group instruction

ILLUSTRATIONS

|             | hardbound   | line copy   |
|-------------|---|---|
| <u> </u>    | paper bound<br>loose leaf<br>other <u>transparencies mast</u> ers | photographs charts/graphs black & white                         |
| ,-          |   | X color   |
| · · · · · · | additional budget required for yearly replacement                 | MATERIAL READABILITY  |
| ~           | materials nonconsumable if separate answer sheet provided         | large print format doeble column copy                           |
| - X.        | subject index bibliography/references                             | generous paragraph spacing  x high interest level               |
|             | performance objectives<br>criterion-referenced measures           | X low reading level   |
|             | student activities  | FEATURES FOR DISADVANTAGED STUDENTS                             |
| X X         | stillent work sheets<br>review questions                          | ethnic groups meaningfully depicted develops self-worth concept |
| <u> </u>    | answer key INTENDED-USE   | develops world of work concept develops craftsmanship concept   |

| ٥ | _ | _ | _ | 9 | _ |     |   |
|---|---|---|---|---|---|-----|---|
| ۰ |   |   |   |   |   |     | ٦ |
|   |   |   |   |   | - | JUN |   |
|   | • | _ | • | • |   | -   |   |

This book contains 16 transparencies and 8 duplicating pages. The book concentrates on tool names and features.

### COMENTS AND RECOMEDIDATIONS

Excellent for beginners who are learning to identify tools. Transparencies can be used for individual study or group instruction. Some of the illustrations on measuring tools are unnecessarily complex.



# DISADVANTAGED VOCATIONAL STUDENTS -

| TITLE OF MTERIALS.   | The Use of Hand Woodw   | orking Tools   |
|--|---|--|
| DATE   | 1978  |  |
| NAME<br>OF<br>DEVELOPERS   | McDonnell and Kaumehe   | iwa  |
| SUBJECT AREA   | Carpentry   |  |
| ORDER INFORMATION  | Delmar Publishers<br>Albany, N.Y. 12205   | 0-8273-1098-6<br>\$5.60  |
| MATERIAL   | FORMAT  | ILLUSTRATIONS  |
| hardbound paper bou loose lea  | nd ·  | Tine copy  X photographs  Charts/graphs  X black & white  color  |
| yearly remains separate subject subjec | phy/references<br>ce objectives<br>-referenced measures<br>ctivities<br>ork sheets<br>estions | MATERIAL READABILITY  large print format double column copy generous paragraph spacing X high interest level low reading level  FEATURES FOR DISADVANTAGED STUDENTS ethnic groups meaningfully depicted develops self-worth concept develops world of work concept |
|  | esource   | X develops craftsmenship concept   |

The text discusses the use of hand woodworking tools. Information includes basic principles and related information concerning carpentry safety and tool use. Each unit concludes with review questions. Illustrations are quite good. Directions for tool use or procedure are clearly and precisely written and are numbered.

COMMENDATIONS

This material would be a good source for a carpentry course. However, instructor intervention would be necessary. This would be a good reinforcement tool for a student who can read on a seventh grade level.

| TITLE     | Woodworking Basics    |  |
|-----------|-----------------------|--|
| MATERIALS |                       |  |
| DATE      |                       |  |
| NAME      | Patrick E. Spielman , |  |

SUBJECT Carpentry

AREA

ORDER
ORDER
INFORMATION

ORDER
424 Valley Rd., Warrington, Pa. 18976

| MATERIAL FORMAT  | ILLUSTRATIONS  |
|--|--|
| hardbound paper bound loose leaf y other   | line copy photographs charts/graphs black & white X color  |
| additional budget required for yearly replacement  | MATERIAL READABILITY   |
| materials nonconsumable if separate answer sheet provided subject index bibliography/references performance objectives criterion-referenced measures | large print format double column copy generous paragraph spacing high interest level low reading level |
| student activities  student work sheets review questions answer key  | ethnic groups meaningfully depicted develops self-worth concept develops world of work concept         |
| INTENDED USE   | y develops craftsmanship concept   |

student resource teacher resource

individual instruction group instruction

This series of transparencies shows basic concepts involved in skill development. Group I emphasizes shop
safety, and deals with basic safety rules, proper
materials storage, etc.; Group II deals with woodcutting
machines such as router bits, chisels, jointer, and
surfacer; Group III is on squaring and building up
stock, and Group IV through VIII cover principles involved in glueing, joining, sanding, and fastening.

### COMMENTS AND RECOMMENDATIONS

These transparencies would be helpful to the beginning corpsmember. The instructor could use them as reinforcements of hands-on experience with small groups or with individual corpsmembers who are having difficulty in particular areas.



|   |  |  | :           |
|---|--|--|-------------|
| TITLE<br>OF<br>MATERIALS                                | Woodworking Hand Tools Ex  | cplained .   |             |
| DATE  | . 1977   |  |             |
| NAME<br>OF<br>DEVELOPERS                                | •  |  |             |
| er er er er er er er er er er er er er e                | · · · ·  | · · · · · ·  | <del></del> |
| SUBJECT AREA  | Carpentry  |  |             |
| ORDER<br>INFORMATION                                    | Bergwall Productions<br>839 Stewart Ave.<br>Garden City, N.Y. 11530              | No. 703<br>\$138.00  | •           |
| MATERIAL  | FORMAT   | ILLUSTRATIONS  |             |
|   | und<br>laf-<br>color filmstrips<br>cassettes                                     | line copy photographs charts/graphs black & white X color  |             |
| addition  | tudy Guide<br>wal budget required for<br>replacement                             | MATERIAL READABILITY   |             |
| material<br>separate<br>subject<br>bibliogr<br>performa | s nonconsumable if e answer sheet provided index aphy/references ince objectives | large print format double column copy generous paragraph spacing high interest level low reading level               | <b>9</b>    |
|   | n-referenced measures<br>activities  | FEATURES FOR DISADVANTAGE  | D STUDENTS  |
|   | •  | ethnic groups meaningfull develops self-worth conce develops world of work concentrations develops craftsmanship con | pt<br>ncept |
|   |  |  | •           |
| X. individu   | resource<br>resource<br>al instruction<br>struction                              | · · · · · · · · · · · · · · · · · · ·  | *,          |



This filmstrip series explains types of measuring and marking tools and their uses. The series concentrates on various types of hand saws such as the cross cut, rip saw, portable electric hand saws, etc.; types of files, planes, and drills and bits.

### CÔMMENTS AND RECOMMENDATIONS

These filmstrips are fairly well done. There is much material to be absorbed. If students can operate the equipment and put on a frame or rewind and replay the cassette, more learning will take place. Each strip contains many demonstrations procedures. These filmstrips could be used as reinforcements of hands-on experience.

|                          | , , , , , , , , , , , , , , , , , , ,  |   |
|--------------------------|--|---|
| TITLE                    | Woodworking: Wood Joints   |   |
| MATERIALS                |  |   |
| DATE                     | 1976   |   |
| NAME<br>OF<br>DEVELOPERS | Robert D. McConnell  | - |
|                          |  | _ |
| SUBJECT                  | Carpentry  |   |
| ORDER INFORMATION        | Order No. TDT62 Milliken Publishing Co. \$9.95 1100 Research Blvd., St. Louis, Mo. 53132 |   |

| MATERIAL FORMAT  | ILLUSTRATIONS   |
|--|---|
| hardbound  X paper bo Toose leaf other Transparencies, masters, and teacher's guide  | line copy photographs charts/graphs black & white x color |
| additional budget required for yearly replacement materials nonconsumable if separate answers sheet provided X subject index bibliography/references performance objectives criterion-referenced measures X student activities X student work sheets review questions X answer key | MATERIAL READABILITY                                      |

ERIC

Full flext Provided by ERIC

X student resource
X teacher resource
X individual instruction
X group instruction

This book contains 12 transparencies, 12 duplicating pages, and a teacher's guide. Transparencies cover basic wood joints dado, lap, rabbet, mortise and tenon, dove tail, miter and dowel joints. Each transparency presents basic concepts and methods. Duplicating master explain different joints and ask students to name them, and tell how they are used.

### COMMENTS AND RECOMMENDATIONS

This is an excellent, low cost, permanent resource which can supplement teacher demonstration and which can reinforce basics for beginning students. The instructor could use the duplicating masters as the basis for an oral instead of a written test for those with a low reading level.

| 1        | Egy (a) mad | and the control of the second of the second second second second second second second second second second second | PER | PORHA<br>ECTIV | NCE<br>ES |        | ost<br>Pect |          | _ | UPPL<br>IVIT |   | 11 | LUS1 | rr.       | REA                   | DABII         | ΙΨ     |             | TURI<br>SADV |     |              | erai<br>Ise. | 1    |
|----------|-------------|---|-----|----------------|-----------|--------|-------------|----------|---|--------------|---|----|------|-----------|-----------------------|---------------|--------|-------------|--------------|-----|--------------|--------------|------|
| <i>;</i> | Ger         | Pentry  | 1   | 2              | 3         | 1      | 2           | 3        | 1 | 2            | 3 | 1  | 2.   | .3        | 1                     | 2             | 3      | 1           | 2            | 3 , | 1            | 2            | 3′   |
|          | 1.          | Curpentry 1: House Framing  | •   |                |           | •      |             | <i>3</i> | • |              | • | •  |      |           |                       | •             |        |             | N/Ā          | ٠.  | , <b>.</b> . | •            | - :  |
|          | 2.          | Residential Carpentry   | •   |                |           | Uı     | knou        | n .      |   |              |   | •  | •    | ,`        |                       |               |        |             | N/A          |     | •            |              |      |
|          | 3.          | Construction - Cluster Guide  | •   |                |           | Ur     | know        | n<br>`   |   | H∖V.         | _ |    | ,    | i –       | -                     | <del> -</del> |        | <b> -</b> - | -            |     |              | •            |      |
|          | 4.          | Harking, HeasuringTools   |     | N/A            | 1         | •      | ,           |          | • |              | ٠ | •  | •    |           | (H:                   | gh- 1         | nte    |             | N/A          | ,   | 4.4          |              | • ,  |
|          | ,5.         | The Use of Hand Woodworking<br>Tools  |     | <b>₩/</b> A    |           |        | ۴           | ,        |   | •            | · | •  | ,    | /.`<br>\{ |                       | •             | ,      |             | 6.2          |     |              | •.           | ۰, ۲ |
|          | 6.          | Woodworking Basics  |     | N/A            | ľ         | ,<br>T |             |          | , | ,`           | • | •  | ,    | <b>)</b>  | (H1                   | h Ir          | ter    | st)         | • •          |     | , g,         |              | ,    |
|          | 7.          | Woodworking Hand Tools<br>Explained   |     | N/A            | , 1       | •      |             | \        |   |              | • | •  |      |           | (1111                 | h Iı          | ter    | st)         | •            |     | •            |              |      |
|          | 8.          | Woodworking: Wood Joints  |     | N/A            |           | •      |             |          | • |              |   | •  |      |           | •<br>(H1 <sub>1</sub> | h Ir          | ter    | st)         | •            |     | •            | ļ•           |      |
|          | ,           | •   | •   |                | ,         |        |             |          |   | ,            |   |    |      |           |                       |               |        |             |              |     | ,            | ,            |      |
|          | •           | . •   |     |                |           |        |             |          |   |              |   |    |      |           |                       |               |        |             |              |     |              |              |      |
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|          |             |   |     |                |           |        |             |          |   |              |   | ,  |      | }<br>}    |                       |               | ļ<br>, |             |              |     |              |              |      |
|          |             |   |     |                |           | ,      |             |          |   |              |   |    |      |           |                       |               |        |             |              |     | ,            |              |      |
|          |             |   | /   |                |           |        |             |          |   |              |   |    |      |           |                       | ,             |        |             |              |     |              |              |      |

ERIC

CEMENT MASON 533

|                   | € 1 m × 1 m |  |
|-------------------|---|--|
| TITLE             | Concrete Technology   |  |
| MATERIALS         |   | <b>,</b>   |
|                   |   |  |
| DATE              | 1977  |  |
|                   |   |  |
| NAME              | George R. White   |  |
| OF.<br>DEVELOPERS |   |  |
| OCTECUTERS        | *   |  |
| SUBJECT           | The second second   |  |
| AREA              | Cement Masonry  |  |
|                   | Delmar Publishers   |  |
| ORDER             | 50 Wolf Road  | \$4.20   |
| NEORMATION        | Albany, New York  | ,                          |
|                   | ,   |  |
| MATERIA           | L FORMAT  | ILLUSTRATIONS  |
| hardbou           |   | lîne copy  |
| x paper b         |   | photographs X charts/graphs                                      |
| other             | ·   | X black & white  |
| Ter to a fe       |   | color  |
| <u>additio</u>    | mal budget required for   | MATERIAL READABILITY   |
|                   | replacement   | large print format   |
| separat           | e answer sheet provided   | double column copy   |
| X subject         | index raphy/reforences  | generous paragraph spacing high interest level                   |
| perform           | ance objectives   | low reading level  |
|                   | on-referenced measures<br>cactivities   | FEATURES FOR DISADVANTAGED STUDENTS                              |
| student           | work sheets   | ethnic groups meaningfully depicted                              |
| review            | questions   | develops self-worth concept                                      |
| adka tini         |   | develops world of work concept  X develops craftsmanship concept |
| X student         | resource  |  |
| X teacher         | resource  | <b>*</b>   |
|                   | ual instruction<br>nstruction   | •  |
| a don't           | inserace (on  | •  |



This text teaches advanced cement masonry skills that include the following: selection and design of concrete mixtures and estimating concrete for a job. It also includes chapters on more basic skills, including uses of concrete, mixing, water, tool use, placing, finishing, and curing concrete, finishing concrete slabs, etc.

### COMMENTS AND RECOMMENDATIONS

This text would be too advanced for most corpsmembers. Sections could be pulled for supplemental work and as a reinforcement to hands-on experience. Would be useful as an instructor resource to help organize units of study.



| A TANK | ,                   | ٥          | - | PERI | PUNTA | NCE<br>ES | Č<br>El | OST<br>FECT |    | ACT | :<br>TES | :11 | LÙS1 | R. | REAI | MBII        | . ~ . | PEA<br>Di | TURE |   | 0۱)<br>ا  | erai<br>Se. | I. |
|--------|---------------------|------------|---|------|-------|-----------|---------|-------------|----|-----|----------|-----|------|----|------|-------------|-------|-----------|------|---|-----------|-------------|----|
| - 1    | Conce t Mason       |            |   | i.   | . 2   | 3         | 1       | 2           | 3. | î   |          |     | 2    | 3  | 1    | 2           | 3     | 1         | 2    | 3 | 1         | 2           | 3  |
|        | Concrete Technology |            |   | - \  |       |           | •       |             |    |     |          |     |      |    |      | • :         |       |           |      | • | <b>(</b>  | •           |    |
| .* .   |                     |            | • |      |       |           |         |             |    |     |          |     |      |    | -    | •           |       |           |      | - | -         | * .         |    |
| :      | <u> </u>            |            |   |      |       |           |         |             |    | ,   |          |     |      |    |      | ٠           |       |           |      | , |           |             | •  |
| •      | ,                   |            | * |      |       |           |         |             |    |     |          |     |      |    |      |             |       |           | ,    |   |           |             |    |
|        | •                   |            |   |      | ٤     |           |         |             |    | ۰   |          |     |      |    |      |             |       |           |      | • | <b>3-</b> |             |    |
| -      | ٠                   | •          |   |      |       |           |         | ,           |    | ,   |          |     |      |    |      | ,           |       |           |      |   |           |             | ,  |
|        |                     |            |   |      |       |           |         |             |    |     |          |     |      |    |      |             |       |           |      |   |           |             |    |
| İ      | ,                   |            |   |      |       |           |         | •           |    |     |          |     |      |    |      |             |       |           |      |   |           |             | _  |
|        |                     |            | - |      |       |           |         |             |    |     |          |     |      |    |      |             |       |           |      |   |           |             |    |
|        |                     |            |   |      |       |           | •       |             |    |     |          |     |      | -  |      | <i>ب</i> ىد |       |           |      |   |           |             |    |
|        | ٠                   |            |   |      |       |           |         |             |    |     |          | •   |      |    |      |             |       | 1         |      |   |           |             |    |
|        |                     |            |   |      |       |           |         |             |    |     |          |     |      |    |      |             |       |           |      |   |           |             | ^  |
|        | •                   | •          | • |      |       |           |         |             |    |     |          |     | -    |    |      |             |       |           |      |   |           |             |    |
|        |                     | <u>.</u> ^ |   |      |       | ·         |         |             |    |     |          |     |      |    |      |             |       |           |      |   |           |             |    |
|        | •,                  |            |   |      |       |           |         | _           |    |     |          |     |      |    |      |             |       | ,         |      |   |           |             |    |
|        |                     |            |   |      |       |           |         |             |    |     |          |     |      |    |      |             |       |           |      |   |           |             |    |
|        |                     |            |   |      |       |           |         |             |    |     |          |     |      |    |      |             |       |           |      |   |           |             |    |

ERIC \*A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,
"3" indicates "poor" or 'not useful."

CLERK, GENERAL

533



| TITLE   | Information Reception  | ist   |
|---|--|---|
| MATERIALS   |  | •   |
| DATE  | 1974   |   |
| NAME<br>OF<br>DEVELOPERS                            | Helen Sams<br>Lois Snyder  |   |
| SUBJECT AREA  | Business/Clerical Clu  | : :   |
| ORDER INFORMATION                                   | Instructional Materia<br>Ohio State Univ.<br>1885 Neil Ave., Colum | abus, Ohio 43210  |
| MATERIAL  | FORMAT   | ILLUSTRATIONS   |
| hardbound paper bou y loose lea other               | ind  | N/A line copy photographs charts/graphs black & white color   |
| additiona   | I budget required for eplacement                                   | MATERIAL READABILITY  |
| materials separate subject i  bibliogra x performan | nonconsumable if answer sheet provided                             | N/A large print format double column copy generous paragraph spacing high interest level low reading level                        |
| student a   | ictivities<br>wrk_sheets   | FEATURES FOR DISADVANTAGED STUDENTS   |
| review que answer ke                                | estions<br>ey  | N/A ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |
| student r   | resource<br>resource<br>Il instruction                             | ``  |



This booklet contains a task analysis of the duties of a receptionist. It contains task statements, tools and materials needed, performance objectives, and related academic knowledge needed.

COMMENTS AND RECOMMENDATIONS

This guide might be useful for new instructors at new centers, or for someone starting up a new program.

|   | <u>.</u>   | • • \   | • •                           |
|---|--|---|-------------------------------|
| TITLE<br>OF<br>MATERIALS  | Office Skills 1 and 2  |   |                               |
| DATE  | 1978   |   |                               |
| NAME<br>OF<br>Developers  | Phyllis C. Morrison  |   |                               |
| •   | *  |   |                               |
| SUBJECT AREA  | Clerk  |   |                               |
| ORDER INFORMATION   | Greg Division - McGra<br>New York, New York  | w - Hill 0-07-043233-3<br>0-07-043234-1 °   |                               |
| hardbour X paper bo loose le X other v                                    | d<br>und<br>af   | ILLUSTRATIONS  line copy photographs X charts/graphs black & white color  |                               |
| yearly r X material separate subject bibliogr performa criterio X student | aphy/references nce objectives n-referenced measures activities work sheets uestions | X large print format double column copy generous paragraph sphigh interest level X low reading level  FEATURES FOR DISADVAN ethnic groups meaning develops self-worth | TAGED STUDENTS fully depicted |
| INTENDED  | ,  | X develops world of world develops craftsmanshi   |                               |
| X student<br>teacher<br>X individu<br>X group in                          | resource<br>al instruction   |   |                               |

ERIC Full Text Provided by ERIC

Office Skills 1 - provides drill material to build basic skills in standard English and Math. A list of vocabulary words and their definitions is also provided.

Office Skills 2 - provides drill material to build basic skills in filing and clerical activities.

Both workbooks provide an answer key to the exercises included.

## COMMENTS AND RECOMMENDATIONS

The workshops may be used as a supplement to The Business Office or any course in the business area.



| TITLE OF MATERIALS  | The Receptionist  |   |
|---|---|---|
| DATE  | 1966  |   |
| NAME<br>OF<br>DEVELOPERS  | Merle W. Wood, Marg   | aret A. McKenna   |
| SUBJECT AREA  | Cl,erk .  |   |
| ORDER INFORMATION   | Gregg Division<br>McGraw - Hill, New  | 07-071590-4<br>York   |
| MATERIAL hardbound paper boo X loose le X other                           | i<br>und<br>af  | ILLUSTRATIONS  line copy X photographs charts/graphs black & white color  |
| yearly r material separate X subject bibliogr performa criterio X student | aphy/references nce objectives n-referenced measures activities work sheets uestions ey | Targe print format   X   double column copy   generous paragraph spacing   high interest level   low reading level     FEATURES FOR DISADVANTAGED STUDENTS   ethnic groups meaningfully depicted   develops self-worth concept   X   develops world of work concept   develops craftsmanship concept     develops craftsmanship concept |
| X student<br>teacher<br>individu  |   |   |



The Receptionist is written in three parts:

- 1. Meet the Receptionist discusses appearance and image.
- 2. The Receptionist Job Responsibilities discusses all the work expected of a receptionist.
- 3. The Job You Want discusses determining the type of business offices one may want to work for.

Each Chapter begins with three questions to stimulate student interest, and points for discussions are presented at the end for review purposes. Also, case studies are provided to present everyday office situations, and problems are designed for student

reaction and practice in office procedures.

COMMENTS AND RECOMMENDATIONS

The material may be a little difficult for readers of lower level. Therefore instructor assistance, should be provided.

|                             | PER | Ponna<br>Ectiv | NCK<br>ES  | C<br>EP | OFT<br>PECT | • | AC1 | JATUS<br>LIVIT | IES | 11 | LUST | R. | REAL | MBII | YTI | PR/<br>Di | TURI<br>SAD | is/<br>/•      | 01 | /erai<br>JSE. | نليا |
|-----------------------------|-----|----------------|------------|---------|-------------|---|-----|----------------|-----|----|------|----|------|------|-----|-----------|-------------|----------------|----|---------------|------|
| General Clerk               | 1   |                | 3          | 1       | 2           | 3 | ì   | 2              | 3   | 1  | 2    | 3  | 1    | Q    | 3   | 1         | .2          | 3.             | 1  | 2             |      |
| 1. Information Receptionist | •   |                | •••        | •       |             |   |     | N/A            |     |    |      |    |      | -    |     | _         |             |                |    | •             | ŀ    |
| 2. Office Skills 1 and 2    |     |                |            | •       |             |   | •   |                |     |    | •    |    |      | •    |     |           | N/A         |                |    | •             |      |
| 3. The Receptionist         |     | • '            | -          | •       |             |   |     | •              |     | •  | `\   | ,  |      | •    |     |           | é           | <b>y</b><br>.) | •  | ^ 、           |      |
|                             |     |                |            |         |             |   | •   |                |     |    |      | 1  |      | ,    |     |           |             |                |    |               | 1    |
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ERIC a "3" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,

CLERK, TYPIST

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| ye       | arly replacement                                      | large print format  |
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| X Sti    | udent activities                                      |   |
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| X in     | dividual instruction                                  | · ·   |
| gr       | oup instruction                                       |   |

This system was seen in use at a Job Corps center. A small IV screen is positioned above the student's type-writer. The student watches the keys on the screen light up, and letters and words are dictated from the cassette; the student then practices on the typewriter in front of the screen. The cassettes contain directions and guided practice sessions. Workbooks are included with tests and reviews.

## COMMENTS AND RECOMMENDATIONS

This is a highly motivational learning tool. The visual aid is an effective instrument to increase and maintain interest.



| OF MATERIALS                  | BO-CEC Business and Of  | fice Careers Course Guide  |
|-------------------------------|---|--|
| DATE                          |   |  |
| NAME                          | Harry Huffman, Project  | Divector   |
| OF                            | Colorado State Univers  | itv  |
| DEVELOPERS                    |   |  |
|                               |   |  |
| SUBJECT AREA                  | Business Clerical Occu  | pations  |
| ORDER                         | Minnesota Instructiona<br>3554 White Bear Lake A<br>White Bear Lake, Minn | No. 709  |
| hardbour paper b loose lother | ound  | ILLUSTRATIONS  X line copy photographs charts/graphs X black & white color |
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|                               | is nonconsumable if   | N/A large print format   |
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| x subject                     | raphy/references  | high_interest level  |
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|                               | activities  | FEATURES FOR DISADVANTAGED STUDENTS  |
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| X review                      | questions<br>kev  | develops self-worth concept  |
| INTENDE                       | -   | develops world of work concept develops craftsmanship concept              |
| ctiviant                      | resource  | •  |
|                               | resource  |  |
|                               | ual instruction   |  |
|                               |   |  |



This career education curriculum guide was designed to introduce junior high students to careers in business. It contains units in the following areas: clerical, secretarial, accounting, data processing, business ownership, and pre-employment activities. Each unit includes a purpose, major activities and suggested procedures. Student materials for major activities are at the end of each unit and can be reproduced separately. Many of the student materials are set ups for simulations and learning games.

### COMMENTS AND RECOMMENDATIONS

Teachers in the Business Clerical Cluster could use these creative materials in their classrooms to provide variety, and maintain student interest. Most of the graphics would be suitable for young adults; a few would not. Highly recommend as a source which teachers can use to make their courses interesting as well as informative.

| TITLE  |   |
|--|---|
| OF<br>MATERIALS  | Applied Office Typewriting  |
| _ DATE   | 1978  |
| NAMÉ<br>OF<br>DEVELOPERS   | Vern A. Frisch and Joan Swinski Handel  |
| SUBJEÇT<br>AREA  | Clerk, Typist   |
| ORDER<br>INFORMATION   | 0-07-022504-4 Gregg Division McGraw - Hill Book Company   |
| x addition yearly material subject bibliog perform criterial student review answer | photographs charts/graphs black & white color  MATERIAL READABILITY  replacement ils nonconsumable if ite answer sheet provided index iraphy/references index iraphy/references index irance objectives inon-referenced measures is activities is work sheets questions key  photographs charts/graphs black & white color  MATERIAL READABILITY  large print format double column copy generous paragraph spacing high interest level low reading level  FEATURES FOR DISADVANTAGED STUDENTS ethnic groups meaningfully depicted develops self-worth-concept develops world of work concept develops craftsmanship concept |
| X individ  |   |

The Applied Office Typewriting practice set includes a job instruction manual, business forms, time sheets, carbon paper, and file folders. The materials are to be used for completing 30 jobs for different kinds of business operations. The students are to perform and complete each assignment as if they were actually working for the organization. The practice set is designed to provide experience in preparing forms for such departments as administration, purchasing, sales, finance, and accounting.

### COMMENTS AND RECOMMENDATIONS

The materials provide good practice for students. However, verbal instructions would be required before the start of each task.

| TITLE<br>OF<br>MATERIALS                           | Office and Business Occupations Cluster Guide  |
|--|--|
| DATE   | 1973   |
| NAME<br>OF<br>DEVELOPERS                           | Michigan Department of Education   |
|  |  |
| SUBJECT<br>AREA                                    | Business Clerical Cluster  |
| ORDER<br>INFORMATION                               | Central Michigan University<br>Mt. Pleasant, Mich. 48859   |
| MATERIA  | L FORMAT ILLUSTRATIONS .   |
| hardbou<br>paper b<br>X loose l<br>other           | ound photographs   |
| yearly materia separat subject X bibliog X perform | nal budget required for replacement ls nonconsumable if e answer sheet provided index raphy/references ance objectives on-referenced measures  MATERIAL READABILITY  MATERIAL READABILITY  MATERIAL READABILITY  MATERIAL READABILITY  double column copy generous paragraph spacing high interest level low reading lavel |
| student  | activities  work sheets questions key  FEATURES FOR DISADVANTAGED STUDENTS  work sheets questions  develops meaningfully depicted questions develops self-worth concept develops world of work, concept develops craftsmanship concept   |
| <pre></pre>  | resource resource ual instruction nstruction   |



This book contains a listing of common cluster tasks, in addition to its main focus, a complete listing of tasks, performance objectives, criterion - reference measures and instructional materials for those tasks for the General Clerk occupation.

### COMMENTS AND RECOMMENDATIONS

The bibliography would be helpful to teachers. The material on the General Office Clerk is similar to an Occupational Training Plan. This booklet could be helpful to those at new centers who need help in developing materials. The guide would need to be checked against the Training Achievement Record.

|  | - Commercial Commercia |
|--|--|
| Typing: What Matters   | is How   |
| July, 1975   |  |
| Erma Evans Bergen County Vocation  | al - Technical Schools   |
| Clerk Typist  Vocational-Technical C Rutgers University Building 4103-Kilmer C   | BE-276<br>\$3.00<br>Surriculum Laboratory<br>Sampus, New Brunswick, N.J. 08903   |
| FORMAT  Id  Jund  Pal budget required for  replacement  Is nonconsumable if  Re answer sheet provided  index  raphy/references  Ince objective | ILLUSTRATIONS  X line copy photographs charts/graphs black & white color  MATERIAL READABILITY  large print format double column copy generous paragraph spacing high interest level X low reading level  FEATURES FOR DISADVANTAGED STUDENTS ethnic groups meaningfully depicted develops self-worth concept X develops world of work concept develops craftsmanship concept  |
|  | July, 1975  Erma Evans Bergen County Vocation  Clerk Typist  Vocational-Technical Cantigers University Building 4103-Kilmer Cantide Ca |

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Guide discusses how to type, using illustrations also discussing accuracy, correct body positions, concentration, effectively typing, employment goals, speed and stroking techniques.

### COMMENTS AND RECOMMENDATIONS

Could be used as a supplement to regular book for student of very low reading skills.

| Δ.            |  |        |
|---------------|--|--------|
| TITLE         | Vocational Forms, Typing 1-15  |        |
| -MATERIALS    | and the same of th |        |
| ,             |  |        |
| ·             | ن  |        |
| DATE          | 1070   |        |
| , DAIL        | 1972   | •      |
|               | · ·  |        |
| .,            | ,  |        |
| , NAME        | Merle Woods, Clifford House  | ,      |
| OF            |  |        |
| DEVELOPERS    |  |        |
| ,             |  |        |
| .00           | °  |        |
| SUBJECT       |  |        |
| AREA          | Clerk Typist   |        |
|               |  | - '    |
| *             | Gregg Division 07-071585-8   | r,     |
| onnén         | McGray - Hill Book Company   | ٠,     |
| ORDER         | McGrass - IIII book company  | • '    |
| INFORMATION   |  |        |
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Vocational Forms Typing 1-15 is designed for typists who can type at least 30 words per minute and know all the parts of the typewriter. The student would be able to work at his/her own pace, and pages are detachable to be inserted into typewriter. There are 15 projects to be completed. At the beginning of each is a group of drills to determine the need for speed or accuracy practice. The projects consist of addressing labels, envelopes, cards, typing invoices of every kind, credit memos, and bills.

## COMMENTS AND RECOMMENDATIONS

Would be a good source, allows student to work at his/her own rate and does not require very much instructor supervision (instructor may need to give oral directions for some projects).

|                               | 6                              | PER | FORM/<br>ECT I | inc <b>e</b><br>Jes |   | COST<br>FPECT |     |            | SUPPI<br>FIVIT |    | İ | LLUST | R. | REAL | DABII | .ITY |    | TUR!<br>(SAD) |   |    | VERAI<br>USE. | ĻĽ  |
|-------------------------------|--------------------------------|-----|----------------|---------------------|---|---------------|-----|------------|----------------|----|---|-------|----|------|-------|------|----|---------------|---|----|---------------|-----|
| Clerk-Typist                  |                                | 1   | 2              | 3                   | í | 2             | . 3 | 1          | 2 ·            | 3  | 1 | 2     | 3  | i    | ~,2   | 3    | 1. | 2             | 3 | 1  | 2.2           | 3.  |
| 1. Automated                  | Instruction                    |     | •              | 1                   | 1 | nkno          | m   |            | •              |    |   | • .   | ,  | ľ    | •     | ,    | •  |               |   | •  |               |     |
| 2. BO-GEC/Bus:<br>Careers Cou | Iness and Office<br>urse Guide |     | . •            | Į:                  | • |               |     | •          |                |    | • |       |    |      | •     |      |    | •             |   | •  | ,             |     |
| 3. Applied Of                 | fice Typewriting               |     | •              |                     | , | ┥             |     | .          |                |    | / | N/A   |    |      | •     |      |    | N/A           |   |    |               |     |
| 4. Office and                 | Business Occupations           | •   | _              |                     | 1 | nkno          | m,  |            | N/A            | ٠  | / |       |    |      |       |      |    | -             |   | •  |               |     |
| 5. Typing: W                  | nat Matters is How             | ľ   | •              |                     | • | ļ             |     |            | •              | /  |   | •     |    |      | • -   |      | ٤, | •             |   |    | •             |     |
| 6. Vocational                 | Forms Typing                   | •   |                |                     | • |               | ,;  | •          |                |    |   | N/A   |    |      | • '   | ,    |    | H/A           |   | \$ | ľ             |     |
|                               | • .                            |     |                |                     |   |               |     |            | >              |    | • |       |    |      |       |      | •• |               |   |    |               | ı   |
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ERIC \*A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level, a "3" indicates "poor" or "not useful."

COOK

562

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|  |  | •  |
|--|--|--|
| TITLE<br>OF<br>MATERIALS                         | Foods - A Teacher's Guide<br>Course for Special Needs S              | to an Employment Orientation<br>Students   |
| DATE   | 1976   | •  |
| NAME<br>OF<br>DEVELOPERS                         | Francine Grubb<br>Joseph English                                     |  |
| SUBJECT AREA                                     | Food Preparation and   | Service  |
| ORDER,<br>INFORMATION                            | Vocational - Technica<br>Rutgers University Bu<br>New Brunswick, N.J | 1 Curriculum Laboratory<br>ilding, 4103 Kilmer Campus \$5.00<br>No. SP388  |
| MATERIA  | L FORMAT   | TLLUSTRATIONS  |
| hardbou<br>paper b<br>X loose 1<br>X other       | ound   | line copy photographs charts/graphs black & white color  |
| yearly materia separat subject bibliog x perform | raphy/references<br>ance objectives                                  | MATERIAL READABILITY  n/a large print format double column copy generous paragraph spacing high interest level low reading level                                       |
| student<br>student<br>review<br>answer           | •  | reatures for DISADVANTAGED STUDENTS  n/a ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |
| X teacher individ                                | v use<br>resource<br>resource<br>ual instruction<br>ngtruction       |  |
| ·  | *  |  |

This is an excellent curriculum guide for the course in cooking. Each lesson has suggested performance objectives, methods of instruction, demonstrations, to be performed, student activities and teacher preparation in an outline format. Covers preparation and serving of breads, eggs, desserts, salads, breakfasts, as well as saféty rules and equipment use and care.

#### COMMENTS AND RECOMMENDATIONS

An excellent guide for teachers who need an organizational format for their course. Would recommend as useful, especially for individuals new to the teaching field, but experienced in their subject area.

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### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| · `         |  |
|-------------|--|
| TITLE       |  |
| OF          | Food Service -   |
| MATERIALS   |  |
|             | * · _  |
|             |  |
| -8456       | 1971   |
| DATE        | 1971   |
|             |  |
| *           |  |
| - NAME '    | Barbara Furneisen  |
| 0F          | M.H. Katzenbach School for the Deaf  |
| DEVELOPERS  | West Trenton, N.J.   |
| DETELUPERS  | med it citetis itso.   |
|             |  |
|             |  |
| SUBJECT     | Food Service Occupations   |
| AREA        | . See tel 1.ee decapations   |
|             |  |
| •           |  |
|             | Vocational - Technical Curriculum Laboratory   |
| ORDER       | Rutgers University Building - Kilmer Campus  |
| INFORMATION | New Brunswick, N.J.  |
| <b>.</b> .  |  |
|             | · · · · · · · · · · · · · · · · · · ·  |
| MATERIAL    | L FORMAT ILLUSTRATIONS   |
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| X student   | activities . FEATURES FOR DISADVANTAGED STUDENTS   |
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| X review    |  |
|             |  |
| answer.     | X develops world of work concept   |
| •           | Y develops craftemanship concept   |
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| group in    | nstruction   |
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DESCI.IPTION

Each unit contains a general objective, information, illustrations, vocabulary, and an assignment (fill-in-the-blank). Units cover safety, general rules, preparing the dining room, kitchen equipment, food portioning, meal service, dessert, salad, and sandwich preparation.

COMMENTS AND RECOMMENDATIONS

This is a very basic text and workbook which would be excellent for use with corpsmembers who are not good readers. It is an excellent reinforcement of hands-on experience.

#### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| ======           |  |
|------------------|--|
| TITLE            | Food Service: Teacher's Guide  |
| OF<br>Materials  | 1000 Service. Teacher 5 daile  |
| LANTER TWO       | · ·  |
|                  |  |
| DATE             | No date  |
|                  | no dace  |
|                  |  |
| NAME             | B. K. Furneisen  |
| ° OF             |  |
| DEVELOPERS       |  |
| •                |  |
|                  |  |
| SUBJECT          | Introduction to Cooking  |
| AREA             |  |
| • • .            | Vocational-Technical Curriculum Laboratory   |
| _ ORDER          | Rutgers University Bldg. 4103 Kilmer Campus  |
| INFORMATION      | New Brunswick, N.J. 08903 \$5.75; #F0-67   |
|                  |  |
|                  |  |
| MATERIA          | IL FORMAT ILLUSTRATIONS  |
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|                  | develops self-worth concept  |
| ansver           | develops world of work, concept  |
| INTENDE          | n use develops craftsmanship concept   |
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| student          | -result te   |
|                  | resu. Ce   |
|                  | ual instruction  |
|                  | nstruction   |
|                  | Λ  |

The guide is divided into units which contain lessons. Each lesson contains an objective, key points, and suggested class activities.

#### COMMENTS AND RECOMMENDATIONS

An excellent instructor's guide. Sequences tasks; covers pertinent information. The instructor would need to prapare materials for use with students, but the guide gives a complete course outline.



# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS                    | Sue Learns About the Use of Measurements in Cooking   |
|---|---|
| DATE  | 1971  |
| NAME<br>OF<br>DEVELOPERS                    | Carol Shenk   |
| •   |   |
| SUBJECT AREA                                | Baking, Cooking   |
| ORDER                                       | Frank E. Richards Publ. Co. Phoenix, N.Y. 13135   |
| MATERIAL                                    | FORMAT ILLUSTRATIONS  |
| hardbour x paper bo loose le other          | photographs   |
| yearly r                                    | replacement s nonconsumable if large print format   |
| separate<br>subject<br>bibliogr<br>performa | answer sheet provided double column copy generous paragraph spacing high interest level X low reading level |
| X student student                           | work sheets N/A athric groups against a decisted  |
| review o                                    | douglane colf worth concent   |
| INTENDE                                     | dayalone craftemanchia concent  |
| individu                                    | resource<br>resource<br>al instruction<br>struction   |

A self-paced learning package. Contains a pre-test and six lessons on measuring cups, spoons, and measuring fats. Exercises (fill in the blank) are on almost every page.

#### COMMENTS AND RECOMMENDATIONS

Low reading level. Could be used as a supplement for courses in cooking/baking, to reinforce lands-on experience. At some points, this book "talks down" to students; i.e., contains clauses such as "check with your teacher," etc.

| 1 2 2 2 2 2 |           | +4 >   |                                  |                 | PER<br>OBJ | FÓRM/<br>ECT I \ | NCE<br>/ES | E    | COST<br>FFECT |     | AC' | SUPP<br>TIVI | L.<br>TIES | I     | LLUST | rr. | REAI | DABII | .ITY | FE/     | TURI<br>SADV  | S/-" | `` O\<br>L | /ERAI<br>JSE. | LL.    |
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|             | 1.        | Foods - Orie<br>Special Needs  | ntation Course<br>S Students     | for             | •          |                  | ٠          | •    | ,             |     | •   |              | 7          |       | N/A   |     |      |       |      | _       | -             |      | •          |               |        |
|             |           | Food Service   |                                  |                 | •          |                  |            | •    | *             |     | •   | , ·          |            | •     |       |     | •    |       |      | ,       | •             | -    | •          | ٠,            | ·      |
|             | <b>3.</b> | Use of Measur  | rements in Coo                   | king            |            | N/A              |            | Մք   | know          | n   | •   |              | ,          | •     | `     | ۰   | •    |       | •    |         | •,            |      | •          |               |        |
|             |           |  |                                  | •               | 2,         | 51.5             | ر<br>ج     |      |               |     |     | ľ            |            |       |       |     |      | ٠     | -    |         |               | -    |            |               |        |
|             |           | •  | ť                                |                 |            |                  |            |      |               |     |     |              |            |       |       |     |      |       |      | •       |               |      |            |               |        |
|             |           | •  |                                  |                 |            |                  | Jan. 1     |      |               |     |     | •            |            |       |       |     |      |       |      |         |               |      |            |               | 200    |
| - 601       |           |  |                                  |                 |            |                  | ٠          | •    |               |     |     |              |            |       |       |     |      |       |      |         |               |      |            |               | ;<br>  |
| 1           |           |  |                                  |                 |            |                  |            |      |               |     |     |              |            |       |       |     |      |       |      |         |               |      |            |               |        |
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|             | •         |  |                                  |                 |            | •                |            |      |               |     | ø   |              | •          |       |       |     |      |       |      |         | `.·           |      |            |               |        |
|             | 4         | ,  |                                  | •               |            |                  |            |      |               |     |     | 1            |            | ٧     |       |     |      |       | ·    | ·       |               |      |            |               |        |
|             |           |  | g                                |                 |            |                  |            |      |               |     |     |              |            |       |       |     |      |       |      |         |               |      |            |               |        |
|             | •         | •  | •                                |                 |            |                  |            |      |               |     |     |              |            |       |       | l   |      |       |      |         |               |      | .          |               |        |
| ٠           |           | •  | ,                                |                 |            |                  |            |      |               |     |     |              |            |       |       | l   |      |       |      |         |               |      |            |               |        |
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| . a         | A "1"     | indicates "ex<br>indicates "poo  | scellent" or "<br>or" or "not us | very h          | elpf       | ul",             | a "2       | 2" 1 | ndica         | tes | 8 9 | at la        | facto      | ory : | level | ,   |      |       |      | <u></u> | <del></del> _ |      | 57         | <del></del>   | المحسد |



ELECTRICIAN

573.

603 -

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|   | 1   | • • •   |   |               |
|---|---|---|---|---------------|
| TITLE<br>OF<br>ATERIALS                     | Basic Electricit  | y, Parts 1-4'   |   |               |
| DATE  | 1977  |   | · •   |               |
| NAME<br>OF<br>VELOPERS                      | D. C. Kilmer  | •   |   |               |
| Aug trans                                   |   |   |   | <del></del> . |
| SUBJECT AREA                                | Electricity   | #E  | EY 435; \$6.00  |               |
| ORDER<br>ORMATION                           | Yocational-Techn<br>Rutgers Universi<br>New Brunswick, N                      | nical Curriculum Laborat<br>Cy, Bldg. 4103 - Kilmer<br>I.J. | tory<br>r Campus .  |               |
| MATERIAL                                    | . FORMAT  | ILLUSTR   | ATIONS  | ı             |
| hardbour<br>paper bo<br>loose le<br>other s | ound<br>eaf   | line co y photogra h charts/ y black & color                | aphs<br>graphs  |               |
| yearly r<br>material                        | nal budget required<br>replacement<br>s nonconsumable if<br>answer sieet prov | large p   | L READABILITY rint format column copy                     |               |
| subject<br>bibliogr<br>performa             |   | generous high in x low reac                                 | s paragraph spacing<br>terest level<br>ding level 5th - 6 |               |
| student<br>student                          | activities ~ work sheets  | FEATURE   | S FOR DISADVANTAGED                                       |               |
| review q<br>answer k<br>INTENDED            |   | develops develops   | s self-worth conceps world of work cors craftsmanship cor | it<br>icept   |
| teacher<br>individu                         | resource<br>resource<br>al instruction<br>struction                           | ·   | •   | ;<br>;        |

605 -

Each of the four books is written simply and clearly. Each lesson contains an objective, related vocabulary, and information. Illustrations are plentiful. There are questions and fill-in-the-blank assignments with each lesson.

## COMMENTS AND RECOMMENDATIONS

Suitable for beginners. Clear, performance-based text. Good for use with poor readers.

### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS                                      | Basic Electricity and Electronics AC & DC #801, 802 Electrical House Wiring Explained   |                    |
|---|---|--------------------|
| DATE  | 1975  | , , <del>, ,</del> |
| NAME<br>OF<br>DEVELOPERS                                      | Richard Hunter  |                    |
| SUBJECT<br>AREA<br>ORDER<br>INFORMATION                       | 3】 2 <b>伊性</b> (2 ~ 4 ~ 4 ~ 4 ~ 4 ~ 4 ~ 4 ~ 4 ~ 4 ~ 4 ~   |                    |
| hardbou<br>Paper b<br>loose l                                 | photographs charts/graphs black & white   | (                  |
| yearly<br>materia<br>separat<br>subject<br>bibliog<br>perform | onal budget required for MATERIAL READABILITY  replacement als nonconsumable if N/A large print format te answer sheet provided double column copy tindex generous paragraph spacing graphy/references high interest level mance objectives low reading level |                    |
| criteri<br>student<br>student                                 | t activities  t work sheets  questions  key  FEATURES FOR DISADVANTAGED STUDE  ethnic groups meaningfully depic  develops self-worth concept  develops world of work concept  develops craftsmanship concept  | ( _ ~              |
| x student<br>teacher<br>individ                               | t resource<br>resource<br>dual instruction  |                    |

Series of filmstrips with cassettes. Some complex; others simplified. Seen on Superviewer 136. "House Wiring" strips are useful. Written in terms of action and performance. Sequence of steps is stated clearly. Types of diagrams for wiring.

To A

## COMMENTS AND RECOMMENDATIONS

Recommend as an aid to electricity students. All strips would be relevant.

### THISTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

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|---|---|--|---------------------------|
| TITLE   | Electrical House Wiring Exp   | olained  |                           |
| MATERIALS   |   | · ·  | ` _                       |
| DATE  | <sup>1</sup> 1975   |  | r.                        |
| NAME<br>OF  |   |  |                           |
| DEVELOPERS  |   |  |                           |
|   |   |  |                           |
| SUBJECT   | Electrician   |  |                           |
| ÖRDÊR<br>INFORMATION  | Bergwall Productions<br>839 Stewart Ave.<br>Garden City, N.Y. 11530         | No. 803<br>\$138.00  |                           |
| addition  | ound eaf 6 color filmstrips 6 cassettes study guide 1al budget required for | line copy photographs charts/graphs black & white x color MATERIAL READABILITY |                           |
| materia   | replacement<br>is nonconsumable if<br>e answer sheet provided<br>index      | large print format double column copy generous paragraph spacing               | g                         |
| performa<br>criteri   | räphy/references<br>ince upjectives<br>on-referenced measures               | X high interest level low reading level  |                           |
| student   | activities<br>work sheets<br>juestions<br>key                               | ethnic groups meaningfull develops self-worth conce develops world of work co  | y depicted<br>pt<br>ncept |
| INTENDE   | ) ÜSE   | X develops craftsmanship co  | ncept '                   |
| teacher individu  | resource<br>resource<br>ial instruction<br>istruction                       |  |                           |

ERIC

609 -

This filmstrip series explains proper inscallation methods for electrical mechanisms. All techniques shown are based on the National Electrical Code. The first strip shows an electrician's tools and defines terms used in the trade. Other strips include information on wiring techniques, installation of ground fault interrupters and receptacles, installation of switches, and of fuse and circuit breaker panels. Each filmstrip is between 70 and 91 frames, and each cassette is between twelve and sixteen minutes.

#### COMMENTS AND RECOMMENDATIONS

These filmstrips, are very well done. The scripts are written in performance terms and are direct and concise. One problem in using any filmstrip is the enormous amount of information contained on each one. If corpsmembers can operate the projector themselves, and stop at appropriate times, these audio-visuals, well be more effective. Otherwise, there is an everload of information to be absorbed.

### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|                                       | •   |  | • •      |
|---------------------------------------|---|--|----------|
| Titu                                  | T 'I DACTADNYTAL BLACTPICAL WI                  | ring Explained                           | $\neg$   |
| OMATER LAL                            |   | •  |          |
| ا<br>ما ما ما گار گار گار گار مح      | -   | •  |          |
| , , , , , , , , , , , , , , , , , , , |   | , :                                      |          |
| DAT                                   | 1977  | 7. · · · · · · · · · · · · · · · · · · · |          |
|                                       | •   |  | <b>S</b> |
| NAM                                   |   | <u> </u>                                 | M.       |
| DEVELOPER                             |   | •  |          |
| DEVELUPER                             | 3 2   |  |          |
| •                                     |   |  |          |
| BJEC                                  | i · Liellillilli                                | , , , , , , , , , , , , , , , , , , ,    |          |
| ARE                                   |   | No804 A,B, & C                           |          |
| , x                                   | Bergwall Productions<br>839 Stewart Ave.        | \$365.00                                 |          |
| ORDE                                  | R Garden City, N.Y. 11530                       | (see description)                        |          |
| INFORMATIO                            | N L   |  | _        |
|                                       |   |  | 1        |
| MATER                                 | IAL FORMAT                                      | ` ILLUSTRATIONS :                        |          |
| ***                                   | 1.24  | line copy                                | , ,      |
| handb                                 | bound   | photographs                              | ••       |
|                                       | : leaf  | charts/graphs                            |          |
| X other                               | 14 color filmstrips                             | black & white                            |          |
| 377                                   | 14 cassettes                                    | X color                                  |          |
|                                       | study guide                                     |  |          |
|                                       | ional budget required for                       | MATERIAL READABILITY                     |          |
|                                       | y replacement                                   | large print format                       |          |
|                                       | ials nonconsumable if the answer sheet provided | double column copy                       |          |
|                                       | ect index                                       | generous paragraph spacing               |          |
| bibli                                 | ography/references                              | high interest level                      | ,        |
| perfo                                 | rmance objectives                               | low reading level                        |          |
| crite                                 | rion-referenced measures                        |  |          |
|                                       | nt activities                                   | FEATURES FOR DISADVANTAGED               | STUDENTS |
|                                       | ent work sheets                                 | ethnic groups meaningfully o             | depicted |
|                                       | w questions                                     | develops self-worth concept              |          |
| answe                                 | er key  | develops world of work conce             | ∍pt      |
| INTEN                                 | IDED USE  | X develops craftsmanship conce           | ept      |
|                                       |   |  |          |
|                                       | nt resource                                     | · · · · · · · · · · · · · · · · · · ·    |          |
|                                       | er resource                                     |  | •        |
|                                       | idual instruction                               |  |          |
| group                                 | instruction                                     |  |          |
|                                       |   |  |          |

This filmstrip series explains electrical wiring of single family homes. No. 804 A, Planning and Roughing In, outlines the steps in estimating, planning, obtaining temporary service roughing in, and installing recessed fixtures. It contains 5 strips and 5 cassettes for \$135.00 No. 804B, Finishing the Installation, discusses special purpose outlets, diswashers, etc., small appliance circuits, oil burner wiring, and fixture handing. It contains the same number of materials for the same price. No. 804 C, on Low Voltage and Special Circuits, was unavauable for preview. It contains 4 strips, 4 cassettes, and is \$108.00. Each of these three units can be ordered separately.

COMMENTS ÁND RECOMMENDATIONS

Some of these topics may not be applicable in some regions and for some corpsmembers. The material may be too advanced, i.e., estimating and planning the job. No. 804 B would probably be of the most use as it gives more step-by-step directions. These series could be somewhat useful for corpsmembers.

|     | en ender Miller en de Marie de la companya de la companya de la companya de la companya de la companya de la c<br>La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co | PERI<br>OBJE                                 | ORMA<br>CTIV | NCE<br>ES | E  | OST<br>PECT | . 6 | ÁCI | UPPL | IES | iì  | LUST |               | RÈAI      | ABIL     | .ITY |            | TURE |    |      | ERAL<br>SE. | L )  | \$ .                                    |
|-----|--|--|--------------|-----------|----|-------------|-----|-----|------|-----|-----|------|---------------|-----------|----------|------|------------|------|----|------|-------------|------|---|
|     | Electrician  | 1  | - 11 (       | <br>3     | 1  | 2           | 3   | 1   | 2    | 3   | 1   | 2 .  | 3             | 11        | 2        | 3    | 1 .        | 2 .  | 3  | 1    | 2           | 3.   | 1 2 2                                   |
|     | 1. Basic Electricity, Parts 1-4  | •  |              |           | •  |             |     | •   |      |     | •   |      |               | <u>`•</u> |          |      |            | • •  |    |      | , ´,        | ***  | 1 X X X X X X X X X X X X X X X X X X X |
|     | 2. Basic Electricity and Electronics   |  | n/a          |           | ,  |             |     | G   | N/A  |     | •   | ·    |               |           | N/A      |      |            | Y    | •. |      | •           |      | ,                                       |
|     | 3. Electrical House Wiring Explained   |  | n/a<br>Ç.    | •         | EF | •           | •   |     | N/A  | æ   | • · |      |               | (H:       | gh I     | nte  | est        | •    |    | •    | • .         |      | 1                                       |
|     | 4. Residential Electrical Wiring   |  | N/A          | Ç         |    | •           |     |     | N/A  | Ì   | .•  |      |               | <u></u>   | Ser      | pt)  |            |      |    |      | •           |      |   |
| ,,  |  |  |              | -         |    | `           |     |     |      |     |     |      | -<br> -<br> - | ,         | :        | :    |            | ,    | -  | ,    |             |      | i i                                     |
| •   |  |  |              | _         |    |             |     |     | -    |     |     | Ì    |               |           | <u> </u> |      |            |      |    | -    |             | 18 S |   |
| 613 |  |  |              |           |    |             |     | ŀ   |      | 19  |     |      |               |           |          |      |            |      |    |      | ~           | 8    | <b>.</b>                                |
| •   | ,  |  |              |           |    |             | ,   |     |      |     |     |      |               |           |          |      | <b>S</b> . |      |    |      |             |      |   |
|     |  |  |              |           |    |             |     |     |      |     |     |      |               | ŧ         | -        |      |            |      |    | ,    | ,. <b>.</b> |      | 8                                       |
|     |  |  |              |           |    |             |     |     |      |     |     | j    |               |           |          |      |            |      | -  |      | _           |      | ;<br>2 .                                |
|     | • •  | . ]  | M            |           | ~  |             |     |     |      |     |     |      |               |           |          |      |            | ۰    |    | \ `. |             |      |   |
| •   |  |  |              |           |    |             |     |     | *    |     |     |      |               |           |          |      |            |      |    |      | ,           | ٠    |   |
|     |  |  |              |           |    |             |     |     | }    |     |     |      |               |           |          |      |            |      |    |      |             |      | •                                       |
|     |  | ŀ  | .'           |           |    | <u> </u>    |     |     |      | :   |     |      |               |           | ľ        |      |            |      |    | '    | ,           |      |   |
| ,   |  |  |              | •         |    |             |     |     |      |     |     |      |               | -         |          | "    |            | ."   |    |      |             | ٠.   | ; '                                     |
|     | *<br>  | <u>                                     </u> |              |           |    |             |     |     |      |     |     | Ľ    |               |           | ·        |      |            |      |    | Ĺ    | ٠.          |      |   |

ERIC A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level, a "3" indicates "poor" or "not useful."

ELECTRICIAL APPLIANCE REPAIRER

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|   | ·                               |  | <u> </u>     |
|---|---------------------------------|--|--------------|
| TITLE                                   | Electric Appliance Re           | pair-Instructional-Resources   | - 1          |
| MATERIALS                               |                                 | $\sim$   |              |
|   | <i>'.</i> -                     |  | ve.          |
|   |                                 | , , , , , ,  | 1            |
| DATE                                    | 1973                            |  |              |
|   |                                 |  |              |
| NAME                                    | Not available                   |  | . "          |
| OF                                      |                                 |  | · - ,        |
| DEVELOPERS                              |                                 |  | ·            |
| y ik.                                   |                                 |  |              |
| SUBJECT                                 |                                 |  | হার 📝        |
| AREA                                    | Electric Appliances.            |  |              |
| 7,511-21                                |                                 |  |              |
|   | Link Educational Lab            | nustanie:  |              |
| ORDER                                   | Montgomery, Ala. 361            | The contract of the contract o |              |
| INFORMATION                             | indired mer 23 1 1 1 2 2 1      |  | <del>!</del> |
| • |                                 |  | , tx         |
| MATERIAL                                | FORMAT                          | ILLUSTRATIONS  | -            |
| 1                                       |                                 |  | •            |
| hardbound                               |                                 | n/a line copy  |              |
| x paper bou                             |                                 | photographs  | •            |
| loose lea                               | T .                             | charts/graphs black & white  | •            |
| other                                   | 4                               | color  |              |
| · · · · · · ·                           |                                 |  | •            |
| additiona                               | budget required for             | MATERIAL READABILITY   |              |
| yearly re                               | placement ,                     |  | 4            |
|   | nonconsumable if                | n/a large print format   |              |
|   | answer sheet provided           | double column copy   | 20           |
| subject i                               |                                 | generous paragraph spaci   | <b>.</b> 9   |
|   | phy/references<br>ce objectives | low reading level  |              |
|   | -referenced measures            | ,  | •            |
|   | ctivities                       | FEATURES FOR DISADVANTAGE  | ED STUDENTS  |
|   | ork sheets -                    | n/a ethnic groups meaningful   |              |
| review qu                               |                                 | develops self-worth conc   |              |
| answer ke                               |                                 | develops world of work c   | oncept       |
|   |                                 | develops craftsmanship c   | oncept       |
| INTENDED.                               | USE                             |  | , λ          |
| student r                               | ACCURCA                         | •  | 1            |
| X teacher r                             |                                 |  | : \          |
|   | instruction                     |  | :            |
| group ins                               |                                 | •  |              |
|   | -                               |  |              |
| 7                                       |                                 | _  |              |

This pamphlet of 12 pages includes lists of movies, books, filmstrips, and transparencies that can be used to teach this course.

## COLHENTS

No mention is made of materials that would be suitable for slower students, but many of the sources, i.e., Merrill, Hayden, etc., do not lend themselves to use with the disadvantaged. Recommend as somewhat useful.

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|                  | manufacture of the second second            |   | ***                           | •                 | •       |              |
|------------------|---|---|-------------------------------|-------------------|---------|--------------|
| TITLE            | Refrigeration Service Fu                    | ndamentals                              | - A Multime                   | edia Progr        | am      |              |
| MATERIALS.       | in Four Units                               |   | •                             |                   | -       | , 6          |
|                  |   |   |                               |                   | · · .   |              |
| •                |   | •                                       |                               | • .               | يا.     |              |
| . DATE           | 1977  |   | •                             |                   | ľ       |              |
|                  |   | •                                       |                               | £-                | · j     |              |
|                  | John J. Richards                            |   | ,                             |                   | - {     | *            |
| " , NAMÉ         | Andrew H. Hagel                             | •                                       | •                             | •                 |         |              |
| DESIGNATION OF   |   |   |                               |                   | - 1     | <del></del>  |
| DEVELOPERS       |   |   | ,                             |                   |         | ΄ Δ          |
|                  | ,   | -                                       |                               | •                 |         |              |
| SUBJECT          |   |   |                               |                   |         | •            |
| AREA             | Electrical Appliance, Repa                  | eir                                     | •                             | •                 | • 1     |              |
| 7                |   |   | •                             | •                 |         | -            |
|                  | .DCA Educational Products                   | •                                       | \$210.00                      |                   |         |              |
| ORDER            | 424 Valley Road'                            | €                                       |                               |                   | ~       |              |
| INFORMATION.     | Warringtons Par 18976                       | <u> </u>                                | <u> </u>                      |                   |         |              |
|                  | ° 1.°                                       |   | •                             |                   |         |              |
| *                | 1 7   | * | ICTO A TIONS                  | •                 |         |              |
| MATERIA          | L FORMAT 🜎                                  | ILL                                     | JSTRATIONS <sub>0</sub>       | •                 |         |              |
|                  |   | lin                                     | е сору                        |                   |         | •            |
| hardbou          |   |   | tographs ·                    |                   |         | v'           |
| paper b          |   |   | rts/graphs                    |                   | v       | * 8          |
| X other          | 12 filmstrips                               |   | ck & white                    |                   | •       | •            |
| A Guier _        | 12 cassettes                                | X col                                   |                               | . 7               | ,       |              |
|                  | study guide                                 | \$                                      | •                             |                   | 1       |              |
|                  | nal budget required for                     | MAT                                     | ERIAL READAB                  | ILITY             |         | <i>y</i> . " |
| yearly           | replacement                                 |   | •                             |                   |         | *            |
| <u>X</u> materia | ls nonconsimable if                         | lar                                     | ge print for                  | 7£4               |         |              |
| separat          | e answer sheet provided                     | dou                                     | ble column c                  | opy<br>anh caaciu |         | •            |
| X subject        | index                                       | gen                                     | erous paragri<br>h interest l | apn spacii        | 19      | 5            |
| 6161109          | raphy/references                            | <u> </u>                                | reading lev                   | e1C:              |         | ·            |
| <u> </u>         | ance objectives .<br>on-referenced measures |   | ,                             | ` ,               | ٠       |              |
| X criteri        | activities                                  | . FEA                                   | TURES FOR DI                  | SADVANTĀGE        | D STUD  | ENTS         |
| Y etudent        | work sheets                                 | •                                       | nic groups m                  |                   |         |              |
|                  | questions                                   | etn                                     | nic groups w<br>elops seif-w  | estingiuii        | ny depi | C CCA .      |
| X answer         | . •   | - dev                                   | elops seria<br>elops world    | of work co        | ncept   | <b>1</b> , _ |
|                  | •     | APA GEA                                 | elops crafts                  | manship co        | ncept   | ~*           |
| INTENDE          | D USE                                       | <u></u> —                               |                               | · ·               |         | ` 1          |
| Y student        | resource                                    |   |                               |                   |         |              |
|                  | resource                                    |   | ,                             | •                 |         |              |
|                  | lual instruction                            |   |                               |                   |         |              |
|                  | nstruction                                  | ₹                                       |                               |                   | -       | •            |
| J. J. J          |   |   |                               |                   |         | -            |

ERIC

- 619 - 587

These materials are divided into four groups of related topics, with skill development progressing from identification of tools to the task of laying brick to the line. The four groups include information on the following topics; identification of hand tools, mixing and spreading mortars laying brick (2 parts), and laying block.

A Study Guide is included in the packet, which includes a written script for each tape and a student worksheet. The worksheets contain objectives written in behavioral terms and content questions that ask the student to explain certain procedures.

#### COMMENTS AND RECOMMENDATIONS

The script is written using performance terminology (insert, place, begin, etc.) and is clear and direct. However, the procedures outlined on most of the film-strips are detailed and complex. The instructor can use these audio-visual materials as reinforcements of hands-on experience. The filmstrips are designed for individual instruction; thus the instructor could have the corpsmembers use the worksheets as study tools or for quiz purposes.

These materials have more validity than other a/v curricula because performance objectives and a way to measure the learning have been included.

# DISADVANTAGED VOCATIONAL STUDENTS

| TITLE OF MATERIALS   | Servicing Electrical Appl<br>Volumes 1 and 2  | iances  |                                       |
|--|---|---|---------------------------------------|
| DATE   | 1972  |   | <u></u>                               |
| NAME<br>OF<br>DEVELOPERS   | National Radio Institute<br>Washington, D.C.  | a a a a a a a a a a a a a a a a a a a   |                                       |
| The second secon | - 1 July | on manual magain. The   | · · · · · · · · · · · · · · · · · · · |
| SUBJECT<br>AREA  | Electrical Appliance Repa   | irs   |                                       |
| ORDER<br>INFORMATION   | McGraw - Hill Book Compan<br>New York, N.Y.   | y 07-046128-7   |                                       |
| MATERIAL   | FORMAT  | ILLUSTRATIONS   |                                       |
| hardboun<br>paper_bo   | und   | x line copy<br>x photographs ~  | · ,                                   |
| loose le<br>other  |   | charts/graphs X black & white color   |                                       |
|  | al budget required for eplacement   | MATERIAL READABILITY  | χ' , , , ,                            |
| material<br>separate<br>subject<br>bibliogr<br>performa  | s nonconsumable if answer sheet provided index aphy/references noe objectives   | large print format double column copy generous paragraph so X high interest level low reading level | pacing                                |
| student  | n-referenced measures<br>activities   | FEATURES FOR DISADVAL   |                                       |
| y review o   |   | develops self-worth-develops world of word develops craftsmansh                                     | concept<br>rk concept                 |
| INTENDEL   | SUSE  | RETEINING CO. C. COMMISSION   |                                       |
| x student  | resource  |   |                                       |

teacher resource individual instruction group instruction

Volume I covers the fundamentals of electricity and how it is used in heating appliances, reservicing small appliances and fixtures. Servicing electric irons, toasters and coffeemakers, cooking appliances, electric ranges, and electric hot water heaters.

Volume II covers theory, motion-producing appliances and those that operate on the basis-of both-heat-and mechanical motion.

Both volumes discuss tools, special equipment, handling service complaints, test equipment, trouble shooting, and diagnostic testing. The volumes also provide a number of illustrations, schematics, and diagrams.

## COMMENTS

RECOMMENDATIONS

The material would be a good source for electrical appliance reparing. However, content may be difficult or written at an advanced level for lower-level readers. Though the material is intended for student resource purposes, it would provide a good source, as a supplement, to the instructor (for oral discussion, testing,

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| '            | Elé                                     | ctrical Appliance Repair                                |            | 2                | 3          | 1        | 2            | 3                   | 1            | 2               | 3    | 1          | 2     | 3.       | 1          | 2        | . 3  | 1   | 2            | 3.       | 1            | 2            | 3.       | 1                    |
|              | ī.                                      | Electrical Appliance Repair-<br>Instructional Resources | ,          | N/A              |            |          |              | , ,                 |              | ٠,              | \$," |            | •     | , ,      |            |          |      |     | ٠.           | <b>.</b> | •            |              |          |                      |
| <sup>2</sup> |   | Refrigeration Service Fundamentals                      | ŀ          |                  |            | •        |              |                     | •            |                 |      | •          |       | 1        | •<br>(\$cr | ipt)     | من   | •   | •            |          | •            | -            |          |                      |
|              | 3.                                      | Servicing Electrical Appliances                         |            | •                |            | •        | •            |                     | •            |                 |      | •          |       |          |            | ,        | ۰.   |     |              | •        | i            | . •          |          | پند                  |
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| ۸            | 8                                       |   |            |                  |            |          |              |                     |              |                 | ,    |            |       |          |            |          |      |     |              |          |              |              | a news   | -                    |

O ERIC "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level, a "3" indicates "poor" or "not useful;"

HEAVY EQUIPMENT REPAIR

- 625 -



# DISADVANTAGED VOCATIONAL STUDENTS

|                          | - 9  | <u> </u>                        | •               |
|--------------------------|--|---------------------------------|-----------------|
| TITLE<br>OF<br>MATERIALS | Diesel Engine Services. A  | n Instructor's Guide for cation | a Program       |
|                          |  | •                               | ´               |
| -                        |  | ,                               | ſ               |
| DATE                     |  | ```.                            | •               |
|                          | to the second of | <u> </u>                        |                 |
| NAME                     | New York State Education D   | enartment                       |                 |
| OF 7                     | New York State Eddcation b   | apar anare                      |                 |
| DEVELOPERS               |  | ~ .                             |                 |
|                          |  |                                 |                 |
|                          |  |                                 |                 |
| SUBJECT_                 |  |                                 |                 |
| AREA                     | Heavy Equipment Repair   | •                               |                 |
|                          |  | ED133 426                       | _               |
| * *                      | ERIC Reproduction Service  | \$8.69                          | }.              |
| ORDER                    | 2020 14th Street, N  | 40.03                           |                 |
| ENFORMATION              | Arlington, VA 22201  | •                               | <b>\</b>        |
| Pin our actition         |  |                                 | <del></del>     |
| •                        |  |                                 |                 |
| MATERIAL                 | L FORMAT   | ILLUSTRATIONS                   | ••              |
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| - hardbou                | nd ·   | N/A line copy                   |                 |
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| loose 1                  |  | charts/graphs                   |                 |
| other                    |  | black & white                   |                 |
| _                        |  | color                           | ٨               |
| 2.3                      | ,  |                                 |                 |
| - addition               | nal budget required for  | MATERIAL READABILITY            |                 |
|                          | replacement  |                                 |                 |
|                          | ls nonconsumable if  | N/A large print format          |                 |
|                          | e answer sheet provided  | double column copy              |                 |
| X subject                |  | generous paragraph s            | pacing          |
|                          | raphy/references   | high interest level             | •               |
|                          | ance objectives  | low reading level               |                 |
|                          | on-referenced measures   |                                 |                 |
| y student                | activities   | FEATURES FOR DISADVA            | NTAGED STUDENTS |
|                          | work sheets  | W/A atheria mayor massin        | afully denicted |
|                          | questions  | N/A ethnic groups meanin        | concept '       |
| answer                   |  | develops self-worth             | rmirch.         |
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| INTENDE                  | D USE  | develops craftsmansh            | ih coucehr      |
| student                  | resource   | i.                              |                 |
|                          | resource   |                                 |                 |
|                          | ual instruction —  |                                 | ,               |
|                          | istruction   |                                 | `               |

This instructional guide is designed to prepare students to be engine mechanics working on automotive and large stationary diesel engines. Eight units are included; skills move from simple to complex. Each unit contains behavioral objectives, a content outline, understandings and teaching approaches that can be used to develop content, and review discussion questions. Sample topics covered include: tool identification and use; job safety engine removal, dissassembly and cleaning, problem diagnosis, tune-up procedures; injection systems and controls and engine accessories.

COMMENTS-AND RECOMMENDATIONS

This is an excellent curriculum tool. Notes on using a/v materials are included, as well as a directory of diesel engine manufacturers from which other instructional materials are available and a bibliography of texts, reference books, charts, films, filmstrips, slides, and transparencies.

| 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |  | PERFORMANCE<br>OBJECTIVES E          |              | COST<br>EFFECT. |          |            | SUPPL.<br>ACTIVITIES |        |      | ILLUSTR. |     |           | REAI           | MBIL         | ITY. | PE/<br>D | ATURI<br>LSAD\ | es/∖<br>∕.                                       | OVERALL<br>USE. |     |     |  |             |
|---|--|--------------------------------------|--------------|-----------------|----------|------------|----------------------|--------|------|----------|-----|-----------|----------------|--------------|------|----------|----------------|--|-----------------|-----|-----|--|-------------|
|   | Heavy Equipment Repair   | $\langle \mathbf{i}_{\cdot} \rangle$ | 2            | 3               | 1        | . <b>2</b> | 3                    | 1      | 2    | 3        | 1   | 2         | .3             | 1            | 2    | 3        | ٠į             | 2  | 3.              | 1   | 2   | 3                                      |             |
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| RIC SEXT Provided by ERIC               | *A "1" indicates "excellent" or "very a "3" indicates "poor" or "not useful. | , .                                  |              | •               | •        |            | , ,                  |        |      |          | *   | ,         | ,              |              |      |          |                |  |                 | -5  | 9.7 |  | <del></del> |

KEYPUNCH AND VERIFIER OPERATOR



### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

Knypunch Training MATERIALS. Nove ber, 1974 DATE Raymond F. Pieslak-ME Marie H. Katzenbach School for the Deaf. OF DEVELOPERS SUBJECT Keypunch and Verifier Operator AREA Vocational-Technical-Gurriculum Laboratory Rutgers University ORDER Building 4103-Kilmer Campus, New Brunswick, N.J. \$4.75 BE-272 INFORMATION **ILLUSTRATIONS** MATÉRIAL FORMAT hardbound line copy photographs paper bound charts/graphs loose leaf other-stapled black & white color MATERIAL READABILITY additional budget required for yearly replacement large print format materials nonconsumable if double column copy separate answer sheet provided generous paragraph spacing subject index bibliography/references high interest level performance objectives low reading level criterion-referenced measures FEATURES FOR DISADVANTAGED STUDENTS student activities student work sheets ethnic groups meaningfully depicted review questions develops self-worth concept answer-key develops world of work concept develops craftsmanship concept INTENDED-USE

x student resource teacher resource individual instruction group instruction

Manual contains basic fundamentals and applications needed for keypunching. Each unit contains an objective and an assignment. The text is designed to be used with a keypunch machine.

COMMENTS AND RECOMMENDATIONS

Not recommended for low-level readers. Should be used with the Sssistance of an instructor for better understanding.

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ERIC \*A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,

NURSE'S AIDE



## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISABVANTAGED VOCATIONAL STUDENTS

|  | The region was seen that the rest of the r |  |                               |
|--|--|--|-------------------------------|
| TITLE<br>OF<br>MATERIALS                   | Being a Nursing Aide   |  |                               |
| DATE                                       |  |  |                               |
| NAME<br>OF<br>DEVELOPERS                   | Hospital Research and Edu  | cational Trust   |                               |
| The same was to the                        | The same designation was a second  | The state of the s |                               |
| SUBJECT<br>AREA                            | Nurse's Aide   |  |                               |
| ORDER                                      | Robert J. Brady Co.<br>Bowie, Maryland 20715   | \$6.50   | •                             |
| MATERIA                                    | FORMAT   | ILLUSTRATIONS  | ,                             |
| hardbou<br>X paper b<br>loose 1            | oùn <b>d</b>   | line copy photographs X charts/graphs Dlack & white color  |                               |
| yearly X materia separat X subject bibliog | nal budget required for replacement ls nonconsumable if answer sheet provided index raphy/references ance objectives   | MATERIAL READABI   | at<br>py<br>ph spacing<br>vel |
|  | on-referenced measures activities  | FEATURES FOR DIS   | ADVANTAGÉD STUDENTS           |
|  | work sheets<br>questions<br>key  | ethnic groups medevelops self-wood develops world of develops craftsme   | f work concept                |
| X. student<br>teacher<br>X individ         | resource<br>resource<br>ual instruction<br>nstruction  |  |                               |
| 2. orb                                     | · · · · · · · · · · · · · · · · · · ·  | t .  | •                             |

This manual is currently in use at some Job Corps centers. It is divided into chapters, with each containing objectives, related information, suggested activities, and self-tests.

## COMMENTS AND RECOMMENDATIONS

This is a good basic text for the Nurse's Aide course. Some material may need to be updated. The instructor will need to modify and add to suggested activities for each chapter.

## DISADVANTAGED VOCATIONAL STUDENTS

| TITLE  | Health_Assistant   |   |   | ۰.                   |
|--|--|---|---|----------------------|
| MATERIALS  | 1973   |   |   | V -                  |
| NAME<br>OF<br>DEVELOPERS   | Esther Caldwell and Barbar   | a R. Hegner   | ` .   |                      |
| SUBJECT  | Nurse Aide   |   |   |                      |
| AREA   |  | •   |   | :                    |
| ORDER<br>INFORMATION   | Delmar Publishers Albany, N.Y. 12205   | 0-8273-0336-7<br>\$6.20   |   | , .                  |
| MATERIAL   | FORMAT   | ILLUSTRATIONS   |   | ·                    |
| y paper be<br>loose le<br>other  | pund   | x photographs charts/graphs black & white color   | •   |                      |
| yearly meteria separat subject bibliog A perform criteri x student student x review answer | raphy/references ance objectives on-referenced measures activities work sheets questions key D USE | large print format double column copy generous paragraph high interest level low reading level  FEATURES FOR DISAL ethnic groups mean develops self-work develops world of develops craftsman | spacing spacing vantageD STU singfully 'dep th concept work concept | oict <b>e</b> d<br>t |
| F K 7 5 575 2  | résource<br>resource   |   |   |                      |

This manual on Health Assistants discusses the responsibilities, procedures, determining vital signs, communication skills, introduction to medical science, and body systems and disorders. The units include review question and discussion topics. Performance objectives are included. Also included with the Instructor's Guide are lists of texts and related audio-visual aids.

### COMMENTS AND RECOMMENDATIONS

This manual is a very good source. However, instructor assistance would be necessary. The teacher could take certain chapters from this source to add to the curriculum. Reading level is approximately seventh grade; only students with fair reading skills could utilize the materials effectively.

#### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE  | Home Nürsing   |   |
|--|--|---|
| MATERIALS  | * * * * * * * * * * * * * * * * * * *  |   |
| DATE   | May 1972   |   |
| NAME<br>OF<br>DEVELOPERS                                   | Catherine M. Kirtz<br>Marie H. Katzenbach S  | chool for the Deaf  |
| , , , , , , , , , , , , , , , , , , ,                      |  |   |
| SUBJECT  | Health Occupations   |   |
| ORDER<br>INFORMATION                                       | Vocational - Technica<br>Rutgers University Bu<br>New Brunswick, N.J. 0                | 1 Curriculum Laboratory<br>Filding - 4103 Kilmer Campus No. HL-71<br>\$5.00   |
| MATERIAL   | FORMAT   | ILLUSTRATIONS ~   |
| hardboun-<br>paper bo<br>loose le<br>x other               | und<br>af  |   |
|  | al budget required for eplacement  | MATERIAL READABILITY  |
| meterial separate  X Subject bibliogr  X performa criterio | s nonconsumable if answer sheet provided index aphy/references noe objectives normals. | large print format double column copy generous paragraph spacing high interest level X low reading level 7th grade            |
| student  | •  | ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |

student resource teacher resource individual instruction group instruction

Each unit contains an objective, related information, vocabulary, and an assignment which is usually short answer or fill in the blank. The course is designed to teach the basics of care for the sick, and first aid in accidents and emergencies. It also focuses on basic biology and nutritional needs.

COMMENTS AND RECOMMENDATIONS

This book may be too advanced for some corpsmembers, as the reading level is at seventh grade. There are good illustrations, but the ratio of illustrations to print is not ideal. Instructors could take entire units from this text to add to their own curriculum, however. Recommend as a useful source.

# ENSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS -

| TITLE OF MATERIALS                                | Manual for the Nurse<br>Teacher Manual includ | s Aide<br>led   |
|---|---|---|
| DATE  | 1968  |   |
| NAME<br>OF<br>DEVELOPERS                          | Evelyn L. Knaedler                            |   |
| SUBJECT AREA                                      | Nurse Aide                                    |   |
| ORDER   | Delmar Publishers<br>Albany, N.Y. 12205       | ISBN 0-8273-0334-3<br>\$4.20  |
| hardbound<br>X paper bou<br>100se lea<br>other    | nd .  | line copy  X photographs charts/graphs X black & white color  |
| X paper bou<br>loose lea<br>other                 | nd .  | x photographs charts/graphs x black & white   |
| sepárate<br>subject i<br>bibliogra<br>y performan | phy/references<br>ce objectives               | large print format double column copy generous paragraph spacing high interest level low reading level                        |
| X student a                                       | <b>y</b>                                      | ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |
| X. student r                                      | esource<br>esource<br>1 instruction           |   |

**HESCHITTON** 

The manual discusses relations and attitudes of the nurse's aide, and presents instructional material on certain procedures necessary for the nurse's aide to learn. Each unit is discussed in two parts, related theory and procedures; written in a non-technical manner and concludes with suggested activities to develop or test understanding.

COMMENTS

RECOMMENDATIONS

This manual would be a good source for providing the basic foundation necessary for training nurse's aides. The Instructor's Guide is excellent. It contains basic teaching tips on preparation, implementation, and testing. The manual has been pre-tested, but not with disadvantaged students.

#### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| * * * * * * * * * * * * * * * * * * * |   |                        |
|---------------------------------------|---|------------------------|
| TITLE T                               | Nursing Aide  | <u> </u>               |
| MATERIALS                             | nursing Aide  |                        |
| LEUICKINCS                            | $\gamma_{i}$  |                        |
|                                       |   |                        |
| DATE                                  | Not Available   | · 1 -                  |
|                                       |   | ` ]                    |
| NAMÈ                                  | Hospital Research and Educational Trust   |                        |
| OF DEVELOPERS.                        |   |                        |
| incacroscus 4                         |   | <del></del> !          |
|                                       |   |                        |
| SUBJECT" AREA                         | Nurse's Aide  |                        |
| , AKEA                                | , nui se s mue  | ·                      |
| .,                                    | Robert J. Brady Co. 7 Units - \$310.00  |                        |
| ORDER                                 | Robert J. Brady Co. 7 Units - \$310.00<br>Bowie, Maryland 20715   |                        |
| THEORING TON.                         |   | <del></del> :          |
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| MATERIAL                              | FORMAT ILLUSTRATIONS  | •                      |
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| paper-bou                             |   | •                      |
| loose le                              | · · · · · · · · · · · · · · · · · · ·   | •                      |
| Cales T                               | ransparencies black & white color   |                        |
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| addition                              | al budget required for MATERIAL READABILITY eplacement  | ٠.                     |
| material                              | s nonconsumable if large print format   |                        |
|                                       | answer sheet provided double column copy  | •                      |
| subject                               | index generous paragraph spacing aphy/references X high interest level  | •                      |
|                                       | nce objectives X low reading level  |                        |
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| answer k                              | ey . develops world of work conc  | ept                    |
| THITCHNEN                             | X develops craftsmanship conc   | ept ——                 |
| INTENDED                              | , UJK   |                        |
| _x_ student                           |   |                        |
| teacher                               | resource  |                        |
|                                       | al instruction struction  | 1                      |
| TOTAL ST. ONLY INC.                   |   |                        |

D CRIPTION

These sets of transparencies provide basic information on hospital procedure, hygiene, and personal behavior as well as explaining nursing principles and skills. Care of all types of patients, from pediatric to geniatric, is covered.

COMMENTS AND RECOMMENDATIONS

The transparencies are motivational, in that minority students are able to identify with the illustrations. They could be used with small groups of students on the same skill level, or as individual study aids.

Following is a list of units contained, in this series:

Unit I - Introduction and Orientation \$11.00
Unit II - The Working Environment \$72.00
Unit III - Lifting & Moving Patients \$63.00
Unit IV - Personal Care of the Patient \$79.50
Unit V - Special Procedures - 1 \$76.50
Unit VI - Special Procedures - 2 \$81.50
Unit VII - Anatomy \$49.00

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| A. Hanual for the Nurse's Aide        | •             | 4.4.4        | ,            |                      |                  |          | •            |       |            |     |      |                 |          | •    |      | ۱ ۱ | •              | ;    | •    |                |  |
| 75. Nursing Aide Transparencies'      | -             | Ń/A.         |              | ئى <sub>ر</sub><br>ب | **               |          | , , ,<br>, , | N/A   | : 1        | •   |      |                 | •        | k    |      |     |                |      |      | , ( )<br>, ( ) | See a see o                            |
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| • 4                                   |               |              |              | p/2                  |                  |          |              |       |            |     |      |                 | -        |      | s.   |     |                |      |      |                |  |
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|                                       |               |              |              |                      |                  | ~        |              |       |            |     |      |                 |          | •    | ·    |     |                |      |      |                |  |

OFFSET PRESS OPERATOR

616

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE OF MATERIALS   | The Basic Offset Press Ex   | plained   | •  |
|--|---|---|--|
| DATE   | 1977  | · · · · · · · · · · · · · · · · · · ·   |  |
| NAME<br>OF<br>DEVELOPERS   |   |   |  |
| SUBJECT.<br>AREA   | Offset Press Operator   | • •   |  |
| ORDER THEORMATION  | Bergwall Productions<br>839 Stewart Ave.<br>Garden City, N.Y. 11530 | No. 305<br>\$92.00  |  |
| MATERIAL   | FORMAT  | ILLUSTRATIONS   |  |
|  | and  4 color filmstrips  4 cassettes                                | photographs charts/graphs black & white color   |  |
| addition<br>yearly re<br>material<br>separate<br>subject<br>bibliogr<br>performa | aphy/references<br>nce objectives                                   | MATERIAL READAE  large print for double column of generous paragr high interest to low reading less | mat<br>copy<br>raph spacing<br>level,  |
| student  | <b>ey</b>   | ethnic groups in develops self-in develops world  | ISADVANTAGED STUDENTS meaningfully depicted worth concept of work concept smanship concept |
| X student teacher x individu group in  |   |   |  |



617

This explanation of the offset press includes four parts; inking and cleaning process; paper feeding and related operations; the printing operation, including parallel, vertical and horizontal adjustments; and common operating adjustments and problems.

### COMMENTS AND RECOMMENDATIONS

These filmstrips are recommended as a reinforecment of instructor demonstration and hands on experience. Many process are explained, and students should be able to replay crucial parts of the tapes as they are listening to it. There is too much material to be absorbed otherwise.

#### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| 1   |   |  |
|---|---|--|
| TITLE<br>OF<br>MATERIALS                            | Introduction to the Offset Line Copy for the Offset P                                 | Process (#301) and Producing rocess Explained  |
| DATE  | 1977  |  |
| NAME<br>OF<br>DEVELOPERS                            |   |  |
|   |   |  |
| SUBJECT   | Offset Press Operator   |  |
| ORDER   | Bergwall Productions<br>339 Stewart Ave.<br>Garden City, N.Y. 11530                   | No. 301 - \$25.00<br>No. 302 - \$69.00   |
| hardbour<br>paper be<br>loose le                    | ound.   | ILLUSTRATIONS  line copy photographs charts/graphs black & white   |
| addition yearly                                     | cassettes study quides nal budget required for replacement ls nonconsumable if        | X color  MATERIAL READABILITY  large print format  |
| separat<br>subject<br>bibliog<br>perform<br>criteri | e answer sheet provided index raphy/references ance objectives on-referenced measures | double column copy generous paragraph spacing high interest level low reading level  |
| student   | •   | FEATURES FOR DISADVANTAGED STUDENTS  ethnic groups meaningfully depicted develops self-worth concept develops would of work concept develops craftsmanship concept |
| x student between teacher                           | resource  |  |

A general overview of the offset printing process is given in #301, which contains one filmstrip and one cassette. #302 contains more detail on typesetting equipment, the lock-up process, the platen press process, and the set up and use of the headliner; this series contain 3 filmstrips and cassettes.

#### CONTENTS AND

These materials can be used for reinforcement of basic concepts. The series of frames presents many procedures and processes which the student must learn in detail; the corpsmember must have the opportunity to rewind and play back the cassette and filmstrip when needed.

|                            |       |                                      | •  |           | PER<br>ONJ | PORMA<br>ECT I V | NCE<br>ES | EI   | OST<br>FECT |      | AC | SUPPL<br>TIVI7 | <br>IES  | I   | LLUST   | r.  | REAL | MBII | LITY | PL/<br>Di | TURI | is/ | 01  | ierai<br>Isr. | J.       |
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|                            | 1.    | The Basic Offset Explained           | Press  | * * * * * |            | N/A              | •         |      | ~           | •,   |    | N/A            |          | •   |         |     | (Sc  | ript | ,    |           | ٠٠   |     |     | -             |          |
|                            | 2.    | Introduction to                      | the Offs   | st Pres   |            | N/A              |           |      |             | Ì    |    | N/A            |          |     |         |     | ٠,   | Ċ    |      |           |      | ·   |     | ,             |          |
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| 7. See 4.                  |       |                                      |  | ,         |            |                  |           | ٠.   |             |      |    |                |          |     |         |     |      |      |      |           | ,    |     |     |               | . '      |
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| gar gerag                  | √.    | •                                    |  | •         | ,          |                  |           |      |             |      |    |                |          |     |         | ,   |      |      |      |           |      | •   |     |               | ,        |
| - 657                      |       |                                      |  |           | ·          |                  |           |      | ·           |      |    |                |          |     | -       | *   |      |      |      |           | ,    |     |     |               | <u>-</u> |
| : 7<br>:                   | • •   |                                      | 4  |           |            |                  |           | -    |             |      |    |                |          |     | -       |     |      | -    | ***  | -         |      |     | • / | • .           |          |
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The National Painting, Decorating and Orywall Apprenticeship and Manpower Training Fund provided for the development of these slide programs which are already in use at Job Corps centers.

The Industrial Maintenance program contains 116 slides and was developed by the Sherwin-Williams Company. Basic topics covered are corrosion, surface preparation, primers, film thickness and selection of a coating system. The script is simply and clearly written. Students learn to identify conditions and problems.

The "Ladders and Scaffolding" presentation contains 80 slides. It's main focus is on safe and proper use of equipment and materials. It is simple and can be used with beginners in the trade, to orient them to safety hazards and to help install good work habits.

The "Spray Painting" program includes 80 slides, and concentrates on basic spray procedures and techniques, diagnoses and resolution of problems, and the safe handling and storage of materials and equipment.

COMMENTS AND RECONSENDATIONS

All programs contain numbered scripts. Highly recommend as a learning tool.



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| - Spray Painting   | -    |                | (           |     |             |      |     |              |         |    |      |    |          |      |            | ;         |      |    | •    | ,           |          |
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6 ERIC

WELDER

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# DISADVANTAGED VOCATIONAL STUDENTS

|                                       | *  |   |
|---------------------------------------|--|---|
| TITLE                                 |  |   |
| OF                                    | Arc Welding                                |   |
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| DEVELOPERS                            | * *  | • |
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| SUBJECT                               | Welding                                    |   |
| AREA                                  | uc.a.ia                                    | 4                                       |
|                                       | •  |   |
| 1                                     |  | \$142.50                                |
| ionacă l                              | DCA Educational Products                   | \$142.00                                |
| ORDER                                 | 424 Valley Rd.                             |   |
| NFORMATION                            | Warrington Pa 18976                        |   |
|                                       |  |   |
|                                       |  |   |
| MATERIAL                              | ENDMAT                                     | ILLUSTRATIONS                           |
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| subject                               | index                                      | generous raragraph spacing              |
| bibliogr                              | raphy/references                           | high interest level                     |
|                                       | nice objectives                            | low reading level                       |
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| Cultain                               | Wint & I & I & I & I & I & I & I & I & I & | FEATURES FOR DISADVANTAGED STUDENTS     |
|                                       | activities                                 | LEWINES LOW DISHDANALHARD STODES        |
| student                               | work sheets                                | ethnic groups meaningfully depicted     |
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| <u>X</u> student                      | resource                                   |   |
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| CEGCISE!                              | ingueros<br>inetwinting                    | • •                                     |
|                                       | ual instruction                            | , .                                     |
| X group in                            | ISTRUCTION                                 |   |



This set of 53 color transparencies and 25 overlays illustrates basic arc welding techniques and gives information on tools and welding symbols. Some illustrations include the following topics: common types of welding, polarity, color codes, soldering, striking the arc, etc. Illustrations also include common welding problems.

## COMMENTS AND RECOMMENDATIONS

These transparencies are well made. Many contain brief sentences outlining processes or steps. The overlays are helpful tools to help students learn terminology. These would be suitable for almost all corpsmembers; those students on a very low reading level would have trouble with the sentences but would benefit by the illustrations. The instructor could use these with a group as a reinforcement of hands-on experience, or students could study the transparencies individually if having trouble with a particular process.

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

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| EMTS |
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ERIC

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This series of filmstrips covers basic electric welding processes. Topics covered include MIG and TIG and stick welding processes, resistance welding, and shielded metal-arc pipe welding.

#### COMENTS ECOMMENDATIONS

These filmstrips are recommended for secondary and college level adult vocational students. This is an excellent series; however, many of the filmstrips would be too difficult for a majority of corpsmembers.

Two of the introductory filmstrips, "Electric Arc Welding and Cutting" and "Electric Arc Welding Vocabulary" reinforce basic terminology and basic information, and could be helpful as an individual learning device for corpsmembers who may be having difficulty in remembering all of the terms at once.

## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS   | Elementary Arc Welding<br>Elementary TIG Welding   |  |
|--|--|--|
| DATË   | 1974   |  |
| NAME<br>OF<br>DEVELOPERS   | John Pierson Charles Jochem  |  |
| SUBJECT<br>AREA<br>ORDER<br>INFORMATION  | Welding Vocational - Technical Rutgers University Bld New Brunswick, N.J.  | Curriculum Laboratory<br>g., 4103 Kilmer Campus<br>\$2.75 each   |
| hardbox paper to loose other   | oound  | ILLUSTRATIONS  X line copy photographs X charts/graphs X black & white color   |
| yearly X materic separa subject biblio perfor criter X studen X studen X review answer | onal budget required for replacement als nonconsumable if te answer sheet provided t index graphy/references mance objectives ion-referenced measures t activities t work sheets questions key | MATERIAL READABILITY  X large print format double column copy generous paragraph spacing X high interest level X low reading level 2nd grade without technical terms FEATURES FOR DISADVANTAGED STUDENTS ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |
| teache   | t resource<br>r resource<br>dual instruction<br>instruction  |  |



This text and workbook was written for deaf students, but it is applicable to students with a low reading level. The amount of text is minimal, yet basic concepts are presented. The majority of the text contains illustrations with captions and some line copy. Topics covered include identifying equipment, welding positions circuits, are and electric welding basics.

#### COMMENTS AND RECOMMENDATIONS

Excellent source for corpsmembers with a low reading level. Strongly recommend.



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| , ••  | 1,                                     | Arc Welding Transparencies   |     | N/A           | ,          | /3*      | •             |    |    | N/A           |      | •        |       |    | •.  | -     |      | ,   |               | ,   | •       | . `           |    | ્રીએ<br>-                               |
| •     | .2.                                    | Electric Welding             | `   | N/A           |            | וט       | know          | ń  |    | N/A           |      | •        |       |    | ~   | •     |      | ,   |               |     | :       |               |    | * · · · · · · · · · · · · · · · · · · · |
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|       | <b>3.</b>                              | Elementary Arc Welding Skill | •   | N/A           |            |          |               |    | •  |               |      | •        |       |    |     |       |      | .*  | •             |     |         |               |    |   |
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GENERAL - INSTRUCTOR AID



This bibliography contains evaluations of and order information on materials in the following categories: reading, math, survival skills, vocational courses, and instructional resources. All of the items are available for preview through the Center. All of the materials relate to students with special needs. The "instructional resources" section evaluates curriculum guides and aids, diagnostic information, etc., and many teachers might find it helpful.

#### COMMENTS AND RECOMMENDATIONS

This is an excellent resource for Basic Education, World of Work, and Vocational Training Job Corps instructors. Highly recommended as a resource at each center.



# INSTRUCTIONAL MATERIALS' CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|  |  | · · · · · · · · · · · · · · · · · · ·   |
|--|--|---|
| TITLE OF MATERIALS   | Competency Based Route T   | o Vertical Curriculum Articulation  |
| DATE   | 1975   |   |
| NAME<br>OF<br>DEVELOPERS   | Dr. Laura Burger<br>Deena Allen<br>James Loebs   |   |
| SUBJECT  | General Instructor Aid   |   |
| ORDER<br>INFORMATION   | Minnesota Instructional<br>3554 White Bear Lake Ave<br>White Bear Lake, Minn.  | Materials Center e. No. 908 \$.50   |
| hardbour paper h loose l other  addition yearly materia separat subject bibliog perform criteri student student review | pamphlet  nal budget required for replacement is nonconsumable if answer sheet provided index raphy/references ance objectives on-referenced measures activities work sheets questions | ILLUSTRATIONS  X line copy photographs Charts/graphs black & white color  MATERIAL READABILITY  N/A large print format double column copy generous paragraph spacing high interest level low reading level  FEATURES FOR DISADVANTAGED STUDENT N/A ethnic groups meaningfully depicte develops world of work concept develops world of work concept |
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- 676 -

This is a small pamphlet which could be used for staff training in developing a competency-based program. It explains the concept of competency-based instruction.

COMMENTS
AND
RECOMMENDATIONS

Could be useful for staff training. Should be reviewed first.

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS                  | Handbook for Vocational I<br>Competency-Based Education  | instructors Interested in   |
|---|--|---|
| DATE                                      | 1974   |   |
| NAME<br>OF<br>DEVELOPERS                  | Dr. Laura Burger and Dr.   | Judith Lambrecht  |
| •   |  | ,-  |
| SUBJECT<br>AREA                           | General - Instructor Aid   | s   |
| ORDER<br>INFORMATION                      | Minnesota Instructional<br>3300 Century Avenue Nort  | Materials Center<br>h, White Bear Lake, Minnesota 55110   |
| MATERIA                                   | FORMAT   | ILLUSTRATIONS   |
| hardbour<br>paper b<br>X loose 1<br>other | ound   | line copy photographs charts/graphs black & white color   |
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| y teache indivi                           | t resource<br>r resource<br>dual instruction<br>instruction  |   |

640 - 678 -

This handbook helps vocational instructors develop valid performance based programs. Explains task inventories, gives information to help instructors decide which tasks are to be taught, how tasks are developed into modules, and contains guidelines on writing modules.

#### COMMENTS AND RECOMMENDATIONS

Excellent resource for new and experienced vocational training teachers. A real aid to vocational staff.

## INSTRUCTIONAL MATERIALS CHECKLIST . FOR DISADVANTAGED VOCATIONAL STUDENTS

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|---------------------------------------|--|---|
| TITLE                                 | Performance Based Inst                       | truction  The State                     |
| MATERIALS                             | Curriculum Development                       | nt in Vocational Education. The State   |
|                                       | of the Art.                                  | * A.2                                   |
|                                       | •  |   |
| DATE                                  | June 1975                                    |   |
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|                                       | . Alabamá State Departm                      | ment of Education                       |
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| OF DETERMINE                          |  |   |
| DEVELOPERS (                          |  |   |
|                                       |  |   |
| SUBJECT. I                            | General - Instructor                         | Aid                                     |
| AREA                                  | General - Time de de                         | , ,                                     |
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|                                       | ERIC Document Reprodu<br>2020 14th Street N. | #ED 137 497                             |
| ORDER                                 | Arlington, Virginia                          | 22201 \$3.50                            |
| INFORMATION                           | Artington, virginit                          | 3 3                                     |
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|                                       | *  | ILLUSTRATIONS /                         |
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|                                       |  | color                                   |
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| yearly                                | replacement                                  | N/A large print format                  |
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| droub                                 | III3 G ROATON                                | • •                                     |

This review includes several articles on topics having major impact on vocational education programs. Some of the major research efforts in curriculum development are discussed, as well as the causes behind the changes in curricula. Major topics discussed are the development of performance/competency based education, the development of V-TECS, and the National Network for Curriculum Coordination in Vocational-Technical Education.

### COMMENTS AND RECOMMENDATIONS

This is an excellent reference tool for instructors and managers who want to keep abreast of changes and developments in the field.

### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS  | Residential Constructio<br>Task Inventories and St   | on/<br>trategies for Curriculum  |               |
|---|--|--|---------------|
| DATE NAME OF DEVELOPERS   | W.L. Ashley<br>T.L. Hindes<br>F.L. Justice   | 1  |               |
| SUBJECT<br>AREA<br>ORDER<br>INFORMATION                           | Instructional Materials<br>1885 Neil Avenue<br>Columbus, Ohio 43210  | s Laboratory   | •             |
| yearly materia separat X subject Dibliog perform criteric student | nal budget required for replacement ls nonconsumable if e answer sheet provided index raphy/references ance objectives on-referenced measures activities work sheets questions key | line copy photographs charts/graphs black & white color  MATERIAL READABILITY  N/A large print format double column copy generous paragraph spacing high interest level low reading level  FEATURES FOR DISADVANTAGED STUD  N/A ethnic groups meaningfully depid develops self-worth concept develops world of work concept develops craftsmanship concept | iç <b>ted</b> |
| teacher individu  | resource<br>resource<br>ual instruction<br>nstruction  |  |               |

This guide is a curriculum research tool for instructors and program designers. It contains detailed information on the following: developing task lists and a survey or a task inventory, developing a strategy for task analysis, developing performance objectives from task statements, and developing the scope and sequence of an entire course

### COMMENTS AND RECOMMENDATIONS

This is an excellent reference tool and could be used as a guide for in-service training for instructors. It would also be an excellent document for individuals who are reviewing and evaluating materials as well as designing them. The title, "Residential Construction," is a misnomer. Construction is used as an example of the process being explained.

### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED YOCATIONAL STUDENTS

| OF MATERIALS                       | Resource Guide for Per   | formance-Based Instruction  |
|------------------------------------|--|---|
| DATE                               | 1977 · ·   |   |
| NAME<br>OF<br>DEVELOPERS           | Gerald F. Day and Denn   | nis R. Herschbach, Project Directors  |
| SUBJECT AREA                       | General-Multiple List  | ing   |
| ORDER INFORMATION                  | as Taduces   | Research and Development Center ial Education - J.M. Patterson of Maryland, College Park, Md. 20740   |
| MATERIAL                           | FORMAT   | ILLUSTRATIONS   |
| hardboun y paper bo loose le other | und  | N/A line copy photographs charts/graphs black & white color   |
| yearly material separate subject   | al budget required for replacement s nonconsumable if answer sheet provided index raphy/references ance objectives | MATERIAL READABILITY  N/A large print format double column copy generous paragraph spacing high interest level low reading level                                      |
| criterio                           | on-referenced measures<br>activities<br>work sheets<br>questions<br>key  | FEATURES FOR DISADVANTAGED STUDENT  N/A ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |
| student  X teacher individ         | resource   | · · · · · · · · · · · · · · · · · · ·   |



This resource guide is an excellent informational source for teachers and contractors. The major portion of the guide contain? listings and printed and audio-visual materials that include a short description of the materials, the current cost, and order information.

The guide also includes a section describing how to develop a performance-based instructional program and a list of general resources in the area of curriculum development.

### COMMENTS AND RECOMMENDATIONS

These resource guides are invaluable to the instructor in the specific vocational training area. They contain a complete bibliography in that particula: subject, and they are recent. However, these guides were not developed specifically as research on programs for disadvantaged youth with a low reading level But from the instructors knowledge of the field, he can choose to preview those materials most suited to Job Corp's needs.

Resource guides available from the University of Maryland include the following:

Auto Body
Auto Mechanics
Carpentry
Cosmetology
Electricity/Electronics
Machine Shop
Masonry
Graphic Arts
Welding
Word Processing

### THISTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED YOCATIONAL STUDENTS

| TITLE<br>OF<br>MATERIALS   | Trade and Industrial Developing Trade Skil   | Education Service: Téchniques of<br>ls in Students   |
|--|--|--|
| DATE   | Not Available  | · · · · · · · · · · · · · · · · · · ·  |
| NAME<br>OF<br>DEVELOPERS   | Division of Vocationa<br>Education, Columbus, O  | 1 Education, State Department of hio   |
| SUBJECT AREA   | General - Instructor   | Aid  |
| ORDER INFORMATION  | Instructional Materia<br>Education - Ohio Stat<br>Columbus, Ohio 43210                       | als Laboratory, Trade and Industrial te Univ 1885 Neil Ave.  |
| MATERIA  | L FORMAT   | ILLUSTRATIONS  |
| hardbour paper b loose 1 other                                   | ound   | N/A line copy photographs charts/graphs black & white color  |
| yearly materia separat subject X bibliog perform criteri student | raphy/references ance objectives on-referenced measures activities work sheets questions key | N/A large print format double column copy generous paragraph spacing high interest level low reading level  FEATURES FOR DISADVANTAGED STUDENTS  N/A ethnic groups meaningfully depicted develops self-worth concept develops world of work concept develops craftsmanship concept |
| X teacher individ  | resource<br>resource<br>wal instruction<br>instruction                                       |  |

643

This booklet contains suggestions for effective teaching of trade skills. It includes references and a study/discussion guide on preparation of the group and methods of implementation.

COMMENTS AND RECOMMENDATIONS

This pamphlet would be useful as an aid in center staff training.

## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| 4                        |   | •                                       |
|--------------------------|---|---|
| TITLE<br>OF<br>MATERIALS | Vocational Instructional 'Special Needs | Materials for Students with             |
|                          |   | •                                       |
|                          |   |   |
| DATE                     | August 1972                             | . 5                                     |
|                          |   | ·                                       |
|                          | . *                                     | ,                                       |
| NAME                     | _                                       | <b>}</b>                                |
| OF OF                    |   | v                                       |
| DEVELOPERS               |   |   |
| ø                        |   | <b>\</b>                                |
| ~~~                      |   |   |
| SUBJECT                  |   |   |
| AREA                     | Northwest Regional Educa                | tional Laboratory                       |
| _                        | 700 Lindsay Building                    | D D                                     |
| 00000                    | 710 S.W. Second Avenue                  | ,                                       |
| ORDER                    | Portland, Oregon 97204                  |   |
| INFORMATION              |   |   |
|                          |   | •                                       |
| MATERIA                  | L FORMAT                                | ILLUSTRATIONS                           |
| MAICKIA                  | L FURNAT                                | , , , , , , , , , , , , , , , , , , ,   |
| X hardbou                | nd                                      | N/A line copy                           |
| paper 5                  |   | photographs                             |
| loose 1                  |   | charts/graphs                           |
| other                    | 681                                     | black & white                           |
| oniei                    | · · · · · · · · · · · · · · · · · · ·   | color                                   |
|                          |   | CO.O.                                   |
| additio                  | nal budget required for                 | MATERIAL READABILITY                    |
|                          | replacement                             |   |
| materia                  | is nonconsumable if                     | N/A large print format                  |
|                          | e answer sheet provided                 | double column copy                      |
| X subject                | · · · · · · · · · · · · · · · · · · ·   | generous paragraph spacing              |
|                          | raphy/references                        | high interest level                     |
|                          | ance objectives                         | low reading level                       |
| criteri                  | on-referenced measures '                | •                                       |
|                          | activities                              | FEATURES FOR DISADVANTAGED STUDENTS     |
| student                  | work sheets                             | N/A ethnic groups meaningfully depicted |
| review                   | questions                               | develops self-worth concept             |
| answer                   |   | develops world of work concept          |
| ,                        |   | develops craftsmanship concept          |
| INTENDE                  | D USE                                   | GEACIONS CIGICS CONTINUIA COMOCAC       |
| •                        |   | •                                       |
| student                  | resource                                | •                                       |
|                          | resource                                | •                                       |
|                          | ual instruction                         |   |
| group i                  | nstruction                              |   |
|                          |   | L L                                     |



Funds were provided for this study by the U.S. Office of Education. This is a 250 page annotated bibliography containing materials suitable for use with special needs students - handicapped, disadvantaged, etc. Information is on a computer printout format, and includes title, author, corporate author, subject area, media, short comment, and source of material. The Job Corps Occupational Training Guides are included as references. Many of the items include those put out by state departments of education.

### COMMENTS AND RECOMMENDATIONS

This is an excellent reference tool, although it is somewhat dated. The book could be of much use to Job Corps staff because all items in it are suitable for use with learners having special needs, unlike most bibliographies of curriculum materials.



## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| · TITLE I   |   | Outhories Res                                 | rancad                                  |
|-------------|---|---|---|
| OF          | A Catalog of Performance ( Measures and Performance ( | Objectives, Criterion-Kett<br>Duides (V-TECS) | erenced                                 |
| MATERIALS   | measures and Performance                              | 101063 (1 100)                                | •                                       |
| 1           | •   |   | ,                                       |
| DATE        | 1977  | ••  |   |
|             |   | •   |   |
| NAME        | Not Available   | •   |   |
| , OF        | ,   | •   | •                                       |
| DEVELOPERS  |   |   |   |
|             | ·   |   | <del></del>                             |
| SUBJECT     | Wultiple - See listing W                              | nder "General - Instructo                     | r Aid"                                  |
| AREA "      | category in bibliography                              |   |   |
|             | Available from Western Mc                             |   | ,                                       |
| ORDER       | P. O. Box 5448, McMullen                              | Highway, Cresaptown, Md.                      | 21502                                   |
| INFORMATION |   | 1 3   | •                                       |
| •           | •   | ILLUSTRATIONS                                 | ·                                       |
| MATERIA     | L FORMAT.   | 166001101110110                               |   |
| hardbou     | ind .   | line copy                                     |   |
| x paper     | ound  | photographs charts/graphs                     |   |
| oose        | leaf  | black & white                                 | <b>1</b>                                |
| bther       |   | color   | •                                       |
|             |   | MATERIAL READABIL                             | .ITY                                    |
| additi      | onal budget required for rc lacement                  | •   | ,                                       |
| materi:     | als nonconsumable 17                                  | N/A large print forma                         | it .                                    |
| separa      | te answer sneet provided                              | double column cop                             | ny<br>nh snacing                        |
| subjec      | t index   | high interest lev                             | vel ·                                   |
| tiblio      | graphy/references                                     | low reading leve                              |   |
| X perfor    | mance objectives<br>ion-referenced measures           |   |   |
| studen      | 化 activities  | FEATURES FOR DISA                             | ADVANTAGED STUDENT                      |
| studen      | it work sheets  | N/A ethnic groups me                          | aningfully depicte                      |
| review      | questions   | develops self-wo                              | rth concept                             |
| answer      | · key   | develops world o develops craftsm             | anship concept                          |
| INTEN       | DED USE   | develops of the                               | ***                                     |
|             |   |   | • |
| studer      | nt resource   | •   | <b>(</b> >                              |
| A teach     | er resource<br>idual instruction                      |   | •                                       |
| droup       | instruction   |   | - •                                     |
| j. vop      | •   | ۵   |   |
|             | •   | <u>-</u>                                      | •                                       |



V-TECS (Vocational-Technical Education Consortium of States) is a cooperative effort to develop catalogs of performance objectives, criterion-referenced measures, and performance guides in selected areas of occupational training.

COMMENTS AND SCOMMENDATIONS

These materials have been developed with extensive field research; all have been field tested prior to publication. Researchers studied tasks needed and used on the job and compared this list to available literature. Included are the duty, task, performance objectives, criterion referenced measures (exercises based on the objectives which serve as a basis for evaluating performance) and performance guides (tasks). These guides can be obtained for a reasonable price and will be helpful in setting up and running a program. Highly recommend.

Auto Body Repair

Auto Mechanics

Carpenter

Combination Welding

Food Management, Production, and Services

Nursing Assistance

Small Engine Repair

21 VT - 17.0301

21 VT - 17.1001

21 VT - 17.2306

21 VT - 09.0203

21 VT - 07.0303

21 VT - 07.0303

| 5   | PERI<br>OBJ | FORMA<br>ECT I V | NCE<br>ES |   | OST<br>FECT | ٠. |   | SUPPL<br>TIVIT |   | IL   | LUST            | R. /   | READ            | ABIL | YTI.   |   | TURE |   |   | VERAI<br>USE. | il. |
|---|-------------|------------------|-----------|---|-------------|----|---|----------------|---|--|-----------------|--|-----------------|------|--|---|------|---|---|---------------|-----|
| eneral-Instructor Aid   | 1           | 2                | 3         | 1 | 2           | 3  | 1 | 2              | 3 | 1  | 2               | 3  | 1               | 2    | 3  | 1 | 2    | 3 | 1 | 2             | 3   |
| . Annot. Bibliography/Special<br>Needs Students                                       |             | N/A              |           | • |             |    |   | n/A            | _ |  | 1               | -  |                 |      |  |   |      | - | • | ·             |     |
| . atalog of Performance Objectives(V-TECS)  | •           |                  | ,         | • |             |    |   | N/A            |   |  | /               |  |                 |      |  |   |      | - |   |               |     |
| . Competency-Based Route  |             | N/A              |           | • |             |    |   | N/A            |   | /  |                 | _  |                 |      | <del>                                     </del> | - |      | - |   | •             |     |
| . Handbook for Voc.Ed. Instructors  |             | N/A              |           | • |             | ,  |   | N/A            |   | <del>                                     </del> |                 |  | \(\frac{1}{2}\) |      |  | - | -    |   | • |               | "   |
| . Performance-Based Instruction in Voc. Ed.   |             | N/A              |           | • |             |    |   | N/A            | - | -  | -               | <del>                                     </del> | -               |      | -  |   |      | + |   | '             |     |
| . Residential Construction Task<br>Inventories and Curriculum<br>Strategies           | •           |                  |           | • |             |    |   | N/A            |   |  | <u>·</u>        |  |                 | -    |  | - | •    |   |   |               |     |
| . Resource Guide for Performance-<br>Based Instruction                                |             | N/A              |           | • |             |    |   | N/A            | - | -  | <del> </del> ,_ |  |                 | -    | -  |   | -    |   | • |               |     |
| 3. Techniques of Developing Trade<br>Skills   |             | N/A              |           | • |             |    |   | N/Ā            |   | -  |                 | -  | -               |      | -  |   | -    | - | • |               |     |
| <ul> <li>Vocational Instructional<br/>Materials/Special Needs<br/>Students</li> </ul> |             | N/A              |           | • |             |    |   | N/A            | _ | -  |                 |  | ,               |      | -  |   |      | + | • |               |     |
| •   |             |                  |           |   |             |    |   |                |   |  |                 |  |                 |      |  |   |      |   |   |               |     |
| ,   |             |                  |           |   |             |    |   |                | 0 |  |                 |  |                 |      |  |   | \    |   |   |               |     |
|   |             |                  |           |   |             |    |   |                |   |  |                 |  |                 |      |  |   |      |   |   |               | 6   |
| •   | Ì           |                  |           |   | •           |    |   |                |   |  |                 |  |                 |      | '  |   |      |   |   |               |     |

ERIC

- 692 -

| Annot: Sibliography/Special.  Reads Students  2:. A Catalog of Performance Objectives(V-TECS)  3: Competency-Based Route a  4. Handbook fcc Voc. Ed. Instructors  5: Performance-Based Instruction In Voc. Ed.  6. Residential Construction Task / Inventories and Curriculum Strategies  7: Resource Guide for Performance- Based Instruction  8. Techniques of Developing Trade Skills  9. Vocational Instructionel Haterials/Special Heeds Students |                  |   |   | PORMA<br>ECTIV |     |      | COST<br>FFECT |      |      | SUPP<br>TIVI |      | I   | LLUST    | ŗĸ:                                   | REA  | DABI     | LTY       |                                       | TUR<br>[SAD |                  |     | VERA       | <b></b>     | 1 11 7 65         |
|--|------------------|---|---|----------------|-----|------|---------------|------|------|--------------|------|-----|----------|---------------------------------------|------|----------|-----------|---------------------------------------|-------------|------------------|-----|------------|-------------|-------------------|
| Negati Students  2. A Catalog of Performance Objectives(V-TECS)  3. Competency-Based Route N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A   |                  | General-Instructor Aid                                  | i                                       | 2              | 3   | 1    | 2             | .3   | 1    | 2            | 3    | 1   | 2        | 3                                     | 1    | 2        | 3         | 1                                     | 2           | 3                | i   | 2          | ું3         |                   |
| Objectives(V-TECS)  Competency-Based Route ANA Inadbook for Voc.Ed. Instructors N/A Inventories and Curriculum Strategies  Resource Guide for Performance-Based Instruction 8. Techniques of Developing Trade Skills  9. Vocational Instructional Haterials/Special Reeds Students  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/  |                  | 1. Annot. Bibliography/Special Needs Students           | , ',' , , , , , , , , , , , , , , , , , | N/A            |     | •    | ,             | . :  | **** | N/A          | _    |     |          | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |      | · .      |           | - 1/1 .<br>- 21 _                     |             |                  |     | <b>X</b> * |             | *****             |
| 5. Mandbook for Voc.Ed. Instructors N/A  5. Performance-Based Instruction N/A  10. Voc.Ed.  6. Residential Construction Task Inventories and Curriculum Strategies  7. Resource Guide for Performance-Based Instruction  8. Techniques of Developing Trade Skills  9. Vocational Instructional Materials/Special Needs  Students   |                  | 2. A Catalog of Performance<br>Objectives(V-TECS)       | •                                       |                | ,   |      | ;             |      |      | Ņ/Ā          | -    |     |          | -                                     |      |          | · .       |                                       | -           | <del>  •</del> , | •   | ·          |             | 1                 |
| 5. Performance-Based Instruction N/A   N/A   N/A   6. Residential Construction Task / Inventories and Curriculum Strategies 7. Resource Guide for Performance-Based Instruction 8. Techniques of Developing Trade Skills 9. Vocational Instructional MAA   N/A   N/A   Materials/Special Needs Students  |                  |   | 1                                       | 1              |     | • ;  |               |      |      |              | -    |     | -        | :                                     |      |          |           | -                                     | <br>        | -                | _   | •          | -           |                   |
| 6. Residential Construction Task Inventories and Curriculum Strategies  7. Resource Guide for Performance— N/A Based Instruction  8. Techniques of Developing Trade Skills  9. Vocational Instructional Haterials/Special Needs Students   |                  | 5. Performance-Based Instruction                        | ł                                       |                |     |      |               |      |      |              | -    | ,   |          | <u>.</u>                              |      |          |           |                                       | ,           |                  |     | ŀ          | 1           |                   |
| Strategies  7. Resource Guide for Performance-Based Instruction  8. Téchniques of Developing Trade Skills  9. Vocational Instructional Haterials/Special Needs  Students   |                  | 6. Residential Construction Task                        |   |                |     | •    |               |      |      | N/A          |      |     | <u> </u> | _                                     |      |          |           | ٠.                                    | ,           |                  |     |            | ,<br>,<br>, |                   |
| 8. Techniques of Developing Trade Skills  9. Vocational Instructional Materials/Special Needs Students  N/A  N/A  N/A  N/A   |                  | Strategies  |   |                |     | ·    |               | ٠.   |      |              |      |     |          |                                       |      |          |           |                                       | ,           |                  | -   | //<br>/    | -           |                   |
| Skills  9. Vocational Instructional Materials/Special Needs Students  N/A  N/A   |                  | 7. Resource Guide for Performance-<br>Based Instruction | _                                       | -<br>A/K       |     | ė    |               | •    | ·    | N/A          |      |     |          |                                       |      |          |           | , , , , , , , , , , , , , , , , , , , |             |                  | • ! | . `        |             | ****              |
| Materials/Special Needs Students   | ľ                | 8. Techniques of Developing Trade Skills                |   | Ñ/A            |     | •    |               |      | ,    | N/A          | -    | -   |          |                                       |      | -        |           |                                       |             | +                | •   |            | • }         | T. B. C. Marchery |
| *A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,  |                  | Materials/Special Needs                                 |   | 1/A            |     | •    |               |      |      | A/N          |      |     |          |                                       | , ,- |          | `~        |                                       |             |                  | • ' |            | · .         |                   |
| *A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,  | ,                |   |   |                |     |      |               |      | ]    |              |      |     |          | i                                     |      | -        |           |                                       |             | ,                |     | .*         | •           |                   |
| *A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,  |                  |   |   | •              | -   | ,    |               | *    |      |              |      |     |          |                                       |      | <b>,</b> | AREA AREA | * *                                   |             | ·                | ;   |            |             |                   |
| *A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,  | ·                |   |   |                |     |      |               |      | -    |              |      |     | -        |                                       |      |          |           |                                       |             |                  | ,   |            |             |                   |
| *A "1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,  |                  |   |   |                |     |      |               |      |      | 3            |      |     |          |                                       |      |          |           |                                       |             |                  |     |            | •           |                   |
| Ca. "3" Indicates "poor" or "not useful."  | a<br>3 ≠1<br>ICa | A "1" indicates "excellent" or "very b                  | elpf                                    | ul",           | , a | 2" 1 | ndic          | ates | a '8 | atis         | fact | ory | leve     | 1,                                    |      |          |           |                                       |             | •                | 65' | 7.         |             |                   |

GENERAL - MULTIPLE LISTING

## INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| OF<br>MATERIALS  | Background for Builders - Re<br>Information for the Build   | lated Science and I<br>ling-Trades                                      | rade .   |    |
|--|---|---|--|----|
| DATE   | 1975  |   |  |    |
| NAME<br>OF<br>DEVELOPERS                                       | Joseph Lucas<br>Somerset Vocational - Techni  | ical School   | · ·  |    |
| SUBJECT<br>AREA  | Building Trades/Building Ma   | intenance   |  | 7  |
| ORDER<br>INFORMATION   | Vocational - Technical Curr<br>Rutgers University Building<br>New Brunswick, N.J. 08903   | iculum Laboratory<br>4103 Kilmer  | \$5.25<br>#BU-275                                |    |
| MATERIA  | L FORMAT  | ILLUSTRATIONS   | ,  |    |
| hardbou<br>X paper b<br>loose l<br>other                       | ound  | X   line copy   photographs   charts/graphs   X   black & white   color | , •  |    |
| yearly materia separat subject bibliog perform criteri student | nal budget required for replacement is nonconsumable if answer sheet provided index praphy/references ance objectives on-referenced measures activities work sheets |   | ormat<br>copy<br>raph spacing<br>level           |    |
| x review answer  |   | develops self-  | worth concept<br>of work conce<br>smanship conce | pt |
| teacher  | t resource free final instruction instruction   |   | •  | ٠  |

Units which contain general objectives and related information about aspects of building: blueprints, mazonry, plumbing, heating, painting, etc. The book contains much theory.

### COMMENTS AND RECOMMENDATIONS

The information is presented in a humorous manner. However, corpsmembers would not find the book too helpful as it is written in narrative fashion and is not performance-based nor geared to student activity. The instructor might buy one copy as a course supplement for those interested in this related information.

### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|                          | <u> </u>  |  |
|--------------------------|---|--|
| TITLE<br>OF<br>MATERIALS | Career-Related Math Units                       | s  |
| DATE                     | 1971  | ·  |
| NAME<br>OF<br>DEVELOPERS | R. Michalicek, C. Paradi                        | s, M. Pierro, A. Grangaard                         |
| , 4                      | •   | •  |
| SUBJECT<br>AREA          | Career math                                     |  |
| ORDER<br>NFORMATION      | Minnesota Instructional Ave., N., White Bear La | Materials Center - 3300 Century<br>ke, Minn. 55110 |
| MATERIA                  | L FORMAT  | ILLUSTRATIONS                                      |
| hardbou                  | ,   | X line copy  |
| paper o                  |   | photographs  |
| X loose 1                |   | X charts/graphs                                    |
| other _                  |   | X black & white color                              |
|                          | · · ·   | COTO   |
|                          | nal budget required for                         | MATERIAL READABILITY                               |
| yearly                   | replacement                                     | large print format                                 |
| ateria                   | ils nonconsumable if<br>e answer sheet provided | double column copy                                 |
| subject                  | index   | generous paragraph spacing                         |
| bibliog                  | raphy/references                                | high interest level                                |
| perform                  | ance cojectives  on-referenced measures         | X low reading level 7th - 8th                      |
|                          | -activities                                     | FEATURES FOR DISADVANTAGED STUDENTS                |
| student                  | work sheets .                                   | N/A ethnic groups meaningfully depicted            |
|                          | questions                                       | develops self-worth concept                        |
| answer                   | key   | develops world of work concept                     |
| INTENDE                  | ED USE  | develops craftsmanship concept                     |
| -                        | •   | `` <b>.</b>  |
| X student                |   | ·  |
|                          | resource<br>Ival instruction                    | <b>?</b>   |
|                          | instruction                                     | 8  |

A career oriented set of units for high school math. Contains units on construction, electricity, auto mechanics, and office occupations. Does not offer drill on simple problems.

COMMENTS AND RECOMMENDATIONS

These units are somewhat advanced for many corpsmembers. This material could be used as a supplement to the basic math course, or in vocational areas as related instruction.



### INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|                                | ·  |   |
|--------------------------------|--|---|
| TITE<br>O<br>MATERIAL          | Curriculum Materials   |   |
| · · DAT                        | Yaries   |   |
| NAP<br>OEVEĻOPER               | <b>X</b>   |   |
| SUBJE(<br>ARE                  |  |   |
| ORDI<br>INFORMATIO             |  | S   |
| MATE                           | RIAL FORMAT  | ILLUSTRATIONS .   |
| pape                           | bound r bound e leaf r   | line copy photographs charts/graphs black & white color                             |
| year                           | tional budget required for ly replacement  | MATERIAL READABILITY  |
| sepa<br>subj<br>bibl<br>X perf | rials nonconsumable if rate answer sheet provided ect index iography/references ormance objectives | double column copy generous paragraph spacing high interest level low reading level |
| x crit                         | erion-referenced measures<br>ent activities  | FEATURES FOR DISADVANTAGED STUDENTS   |
| stud                           | ent work sheets ew questions   | ethnic groups meaningfully depicted develops self-worth concept                     |
|                                | er key   | develops world of work concept  |
| INTE                           | ENDED USE  | develops craftsmanship concept  |
| X teac                         | ent resource<br>her resource<br>vidual instruction   |   |
| X grou                         | p instruction  |   |

These curriculum guides are modular. Performance objectives are included for each major task and for each sub-task. Also included are related content information, work assignment sheets, tests, and test keys, and masters for transparencies.

### COMMENTS AND RECOMMENDATIONS

These materials are very well done and will work extremely well with most average students. However, the materials are largely printed materials, and a sixth or seventh grade reading level is necessary. There is a question of how motivational these materials are when used with corpsmembers. A plus is that the materials are designed for individual instruction. Recommend as instructional resources for the instructor and for supplemental use along with hands-on experience. Very useful in helping an instructor organize materials.

Following is a list of content areas in which these materials are available:

Bricklaying Curriculum Commercial Carpentry Curriculum Cement Masonry Curriculum Construction Craftsman Curriculum

## INSTRUCTIONA ( MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

|  | •   |  |  |
|--|---|--|--|
| TITLE<br>OF<br>MATERIALS               | Glossaries of Key Wor   | rds ·  |  |
| DATE                                   | Not Available   |  | 1  |
| NAME<br>OF<br>DEVELOPERS               | Not Available   |  |  |
|  |   |  | •  |
| SUBJECT AREA                           | General - See foilow  | ing page for listing o                                   | f areas  |
| ORDER<br>INFORMATION                   | Vocational Technical<br>Rutgers University B<br>New Brunswick, N.J. | Curriculum Laboratory<br>1dg. 4103 Kilmer Campu<br>08903 | \$3.00 each  |
| MATERIA                                | L FORMAT  | ILLUSTRATION   | · .<br>S   |
| hardbou<br>paper b<br>loose l<br>other | ound ,  | x line copy photographs charts/graph black & whit color  | · · · · · · · · · · · · · · · · · · ·  |
| addition                               | onal budget required for  | MATERIAL REA   | DABILITY   |
| x subject bibliog perform              | graphy/references<br>mance objectives                               | high interes X low reading                               | n copy<br>agraph spacing   |
| student                                | ion-referenced measures<br>Lactivities                              | FEATURES FOR   | R DISADVANTAGED STUDENTS   |
| student                                | t work sheets<br>questions<br>key                                   | develops se  | os meaningfully depicted<br>if-worth concept<br>rld of work concept<br>aftsmanship concept |
| X student teacher                      | t-résource /  | •  |  |

These glossaries contain key words that are used in the trade. Each word is defined twice - first, it is simply defined and next, used in a sentence. The word is also devided into syllables and capitalized for emphasis.

COMMENTS AND RECOMMENDATIONS

One major drawback to the glossaries is that they contain no illustrations. For that reason, their use will be limited to students reading on a fourth to fifth grade level. The one glossary which did contain illustrations, that for Building Services, is listed separately in this bibliography under the "Building Maintenance" category.

Automobile Gody Repair EN-404-Auto Mechanics EN-405 Building Trades EN-406 Food Services EN-420 Heating/Air Conditioning EN-422 Total Office Procedures EN-431

Data Processing EN-412
Appliance Repair EN-402
Diesel Power EN-414
Printing Procedures EN-428
Radio/TV Repair EN-429
Welding EN-432

# INSTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE OF MATERIALS   | Performance Objectives. Basic Course   |
|--|--|
| DATE   | 1975-76  |
| NAME<br>OF<br>DEVELOPERS                                       | Multiple   |
| SUBJECT<br>AREA  | General - Multiple Listing   |
| ORDER<br>INFORMATION   | ERIC Document Reproduction Service<br>2020 14th Street, N<br>Arlington, Virginia 22201   |
| hardbou<br>paper b<br>loose l<br>other                         | ound photographs   |
| yearly materia separat subject bibliog perform criteri student | replacement  Is nonconsumable if  ie answer sheet provided  index  graphy/references  iance objectives  ion-referenced measures,  activities  think interest level  low reading level  FEATURES FOR DISADVANTAGED STUDENTS  N/A ethnic groups meaningfully depicted develops self-worth concept develops craftsmanship concept |
| X teacher individ  | resource<br>resource<br>dual instruction<br>instruction  |

ERIC

- 705 -

These course outlines are divided into sets of major objectives, with each being divided into sequential intermediate performance objectives and related criterion measures. Some tests are included as criterion measures. The course outlines are designed to enable the student to develop competencies in the fundamentals of the particular trade.

### COMMENTS (AND)

RECOMMENDATIONS

Much of the material in these manuals will be useful as aids in designing curricula. The performance objectives are clearly written, and the inclusion of learning measures is an added plus. This type of aid could help the new instructor or the instructor at a new center to

Following is a list of content areas for which materials are available:

Building Maintenance ED 139 963 \$2.06 Printing ED 139 943 \$3.50 Welding ED 139 947 \$2.06

get started.

## DISTRUCTIONAL MATERIALS CHECKLIST FOR DISADVANTAGED VOCATIONAL STUDENTS

| TITLE  |   |                  | <del></del> _  | <del> </del>   | <del></del> |
|--|---|------------------|--|--|-------------|
| OF MATERIALS                                     | "Practical Problems                                     | in Mathema       | atics Series   | •  |             |
| DATE   | 1975-1977   |                  |  |  |             |
| NAME OF  | · ,   | 1                |  | . •  |             |
| DEVELOPERS (                                     |   | <del>\</del> , . | ······   | `.   | •.          |
| SUBJECT  | General-Multiple Li                                     | sting            |  | •  |             |
| ORDER<br>NFORMATION                              | Delmar Publishers<br>50) Wolf Rd:<br>Albany, N.Y. 12205 |                  |  |  |             |
| MATERIAL   | FORMAT  |                  | ILLUSTRATIONS  | •  |             |
| hardbour x paper bo loose lo                     | ound ,  | X                | line copy photographs charts/graphs black & white color                            |  |             |
| yearly materia separat X subject bibliog perform | raphy/references<br>ance objectives                     | X                | HATERIAL READ  large print ( double column generous para high interest low reading | format<br>n copy<br>ngraph spacing<br>t level                        |             |
| X student  | on-referenced measures<br>activities                    |                  | •  | DISADVANTAGED  |             |
|  | •   |                  | develops self  | s meaningfully<br>f-worth concep<br>ld of work con<br>f(swanship con | it<br>Icept |
| student<br>teacher                               | resource<br>resource<br>úal instruction<br>nstruction   | •                |  |  | ,           |

Each workbook contains drill and practice in basic computation skills as well as in more advanced mathematical skills used in the particular trade. For example, each book has introductory units on the addition, subtraction, division and multiplication of whole numbers, fractions, and decimal fractions. All of these units contain problems to be encountered in that trade. The latter units contain more specialized knowledge - problems on linear, angular, and surface measurement are used in the welders book, and problems on percents and accounting are used in the office worker's book.

### COMMENTS AND RECOMMENDATIONS

These workbooks were designed for use with a wide range of students. They all contain problems relevant to the particular trade. The instructor's guides are excellent; they contain suggested activities for each unit and a series of discussion provoking questions as well as answer keys. The books are to be used for drill and practice, not for concept formation. They could be used in the Basic Math course or in the vocational course Following is a list of workbooks available in the "Practice Problems in Math" series:

Automotive Technicians Carpenters
Sheet Metal Technicians Masons
Flectricians Office Workers
Welders

Printers Machinists Welders Consumers

### INSTRUCTIONAL MATERIALS CHECKLIST DISADVANTAGED VOCATIONAL STUDENTS: Tool Tech Today OF MATERIALS: DATE 1978 Unavailable NAME DEVELOPERS SUBJECT Tool identification and use - applicable to many Job Corps AREA occupational courses Instructional Unit: MIND, Inc. ORDER 181 Main Street, Norwalk, Conn. \$345.00 06851 INFORMATION MATERIAL FORMAT ILLUSTRATIONS line copy hardbound photographs paper bound charts/graphs loose leaf X other slides with audio tape black & white color (slides) and related materials MATERIAL READABILITY additional budget required for yearly replacement X materials nonconsumable if . large print format double column copy separate answer sheet provided generous paragraph spacing subject index high interest level bibliography/references X performance objectives low reading level criterion-referenced measures FEATURES FOR DISADVANTAGED STUDENTS X student activities X student work sheets ethnic groups meaningfully depicted review questions develops self-worth concept answer key develops world of work concept develops craftsmanship concept INTENDED USE student resource teacher resource individual instruction group instruction

Tool Tech is a hands-on training and assessment program on the correct and safe usage of hand tools. The program is designed for the disadvantaged; it is individualized and can be used with virtual non-readers. Tool Tech contains 16 units; each can be ordered individually Each unit contains assessment and instructional lessons in an audiovisual format. Each unit contains a set of tools. The teacher resource manual is complete; it contains performance objectives and activities also.

### COMMENTS AND RECOMMENDATIONS

The slides and tapes are professionally done. An advantage is that students can work individually until they are able to perform the task. The tape stops automatically at points where the student works with the tool. However, the units are not specifically geared to certain trades, but are general in nature. As of 6/12/78, the possibility of developing units for each trade was under investigation. MIND, INC., representatives are in almost every state and will demonstrate this material at centers. Job Corps might want to consider this in order to help determine the value of the program. Unit 6 on Rules, Squares, and Levels is a good resource on measurement. Such a unit

could be used the week prior to student entry in a vocational course so that he has an in-depth hands-on orientation to the trade. A disadvantage is the cost.

|  |     | PEPFORMANCE<br>OBJECTIVES |   |     | COST .<br>EFFECT. |   | SUPPL.<br>ACTIVITIES |      | IES  | ILLU <b>STR.</b> |     |     | READABILITY |     |   | FEATURES/<br>DISADV. |     |     | OVERALL<br>USE. |     |   |
|--|-----|---------------------------|---|-----|-------------------|---|----------------------|------|------|------------------|-----|-----|-------------|-----|---|----------------------|-----|-----|-----------------|-----|---|
| eneral - Multiple Listing                        | 1   | 2                         | 3 | 1 · | 2                 | 3 | 1                    | 2    | 3    | 1                | 2   | 3   | , 1         | 2   | 3 | . 1                  | 2   | 3   | 1               | 2   |   |
| Background for Builders -<br>Related Information |     | ×                         | • |     |                   |   |                      | . •/ | ι    | -                | •   |     |             | -   |   | ,                    | • 1 | •   |                 |     |   |
| . Career-Related Math Units                      |     |                           | • |     | •                 |   | ,                    | •    |      |                  | n/A |     | ,           |     | • |                      | n/A | ·   | -               | •   |   |
| . Curriculum Materials                           | • . |                           |   | •   |                   |   | •                    |      |      |                  |     | •   | ა           |     |   |                      |     | •   |                 | •.  | 1 |
| . Glossaries of Key Words                        |     | N/A                       |   | •   |                   | , |                      |      | •    |                  |     | • ` |             | -   |   |                      |     | • 1 |                 | •   |   |
| Performance Objectives/Basic<br>Course           | •   | -                         |   | •   |                   |   |                      | •    |      | ٠.               | n/A | ,   |             | N/A |   |                      | N/A |     | •,              |     |   |
| Practical Problems in Mathematics Series         | -   | n/A                       |   | ,   | •                 |   | •                    |      | ,    | •                | ,   |     | ,           | •   |   | ,                    | n/A |     | •               |     |   |
| Tool Tech Today                                  | •   | ·                         |   | -   |                   |   |                      |      |      | • `              |     |     | •           |     |   |                      | •   |     | ī               |     |   |
|  |     | '                         |   |     |                   |   |                      | ,    | ٠. ٠ | S. 1,5.          |     |     |             |     | ' |                      |     |     |                 |     | - |
|  |     |                           |   |     |                   |   |                      |      |      |                  | ,   | ,   |             | ŀ   |   |                      |     |     | ٠.              | . 4 |   |
| •  |     |                           | , |     |                   |   |                      |      |      |                  | 1   |     |             | •   |   |                      |     |     |                 |     | - |
|  |     |                           |   |     |                   |   |                      |      | ,    |                  |     |     |             | ] . | , |                      |     |     |                 | ŀ   |   |
|  |     |                           |   |     |                   |   |                      |      |      |                  |     | -   |             |     |   |                      |     |     |                 |     |   |
| ·  | 1   |                           |   |     |                   |   |                      |      |      | '                |     | ب   |             |     |   |                      |     |     |                 | ,   |   |
|  |     | -                         |   |     | !                 |   |                      | `    |      |                  |     |     |             |     |   |                      |     |     |                 |     |   |
|  |     |                           |   |     |                   |   |                      | `    |      |                  |     |     |             | 1   |   |                      |     |     |                 |     |   |
|  |     |                           |   |     |                   |   |                      |      |      |                  |     |     |             |     |   |                      |     | 6'  | 4               |     |   |
| 673  |     |                           |   |     |                   |   | 1.                   |      |      | 4                |     |     |             |     |   |                      |     |     | g G             |     |   |

"1" indicates "excellent" or "very helpful", a "2" indicates a satisfactory level,

APPENDIX B
SOURCE LISTING

Airco Technical Institute 121 Kane Street Baltimore, MD 21224 Contact: Mr. Ronald L. Beall, Director

American Gas Association\*
1515 Wilson Boulevard
Arlington, VA
Telephone: 524-2000

American Technical Society\* 848 E. 58th Street Chicago, IL 60637

Associated General Contractors of America 1957 E Street, N.W. Washington, DC 20036 Contact: Mr. Valentin Riva

Association for Educational Communications and Technology, 1126-16th Street, N.W. Washington, OC 20036

Association of Media Producers\* 1707 L Street, N.W. Washington, DC 20036

Baltimore County Board of Education
6901 North Charles Street
Towson, MD 21204
Contact: Dr. Karl Gettle, Coordinator of Industrial Arts and Vocational
Technical Education

Bobbs-Merrill Educational Publishing 4300 West 62nd Street \_ Indianapolis, IN 46206

California State Department of Education 721 Capitol Mail Sacramento, CA 95814

\*These associations were not contacted due to time limitations.

Charles E: Merrill Publishing Co. 1300 Alum Creek Drive Columbus OH 43216

Colorado State University Curriculum Materials Service Department of Vocational Education Vocational Educational Bldg. Fort Collins, CO 80523

DCA Educational Products 424 Valley Road Warrington, PA 18976 Contact: Mr. Bennett Schultz, Vice President

Delmar Publishers 1978 Catalog 50 Wolf Road Albany, NY 12205

East Central Curriculum Management Center Department of Vocational-Technical Education 100 N. First Springfield, IL 62777

Florida State University
Center for Educational Technology
1A Tully Gymnasium
Tallahassee, FL 32306
Contact: Dr. Roberto Branson or Dr. Gail Raynet

Frank E. Richards Co. Phoenix, NY 13135

Frederick County Board of Education
115 East Church Street
Frederick, MD 21701
Contact: Mr. H. Edward Reiley, Supervisor of Vocational Education and Agriculture

Lincoln Technical Institute 10 Rooney Circle West Orange, NJ 07052 Maryland State Department of Education Division of Vo-Tech Education P.O. Box 8717, BWI Airport Baltimore, MD 21240

Media Fair, Inc. 380 Maple Avenue W. Vienna, VA 22180

Montgomery College, Germantown Campus
51 Mannakee Street
Rockville MD 20850
Contact: Dr. Clifford Rall, Vocational-Technical Education Specialist

Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850
Contact: Dr. Frank Carricato, Director of Career and Vocational Education

Milliken Publishing Go. 1100 Research Boulevard St. Louis, MO-63132

Minnesota Instructional Materials 3554 White Bear Avenue White Bear Lake, MN 55110

National Association of Homebuilders

Manpower Division
15th and M. Streets, N.W.

Washington, DC 20005

Telephone: (202) 452-0381

Contact: Mr. Sonny Marks and Mr. Tom Gossulin

National Association of Trade and Technical Schools 2021 L Street, N.W. Washington, DC 20036

International Brotherhood of Painters and Allied Trades 1750 New York Avenue, N.W. Washington, D.C. 20036 Telephone: 872-1444 Contact: Mr. Ken Dronin

National Audio Visual Association\*
3150 Spring Street
Fairfax VA\_22030

National Information Center for Educational Media (NICEM)
"Index to Vocational and Technical Education!"
University of Southern California
University Park
Los Angeles, CA 90007

Northwest Regional Education Laboratory for Students with Special Needs 700 Lindsay Building 710 S.W. Second Avenue Portland, OR 97304

New-Jersey Vocational-Technical Curriculum Laboratory
Rutgers University
4103 Kilmer-Campus
New Brunswick, NJ 08903

Ohio State University
Center for Resources in Vocational Education
1960-Kenny-Road
Columbus, OH 43210-

Ohio State University
Instructional Materials Laboratory
1885 Neil Avenue
Columbus, Oh: 43210
Contact: Mr. Mark D. Marquette

Oklahoma State Department of Vocational and Technical Education Curriculum and Instructional Materials Center 1575 West Sixth Avenue Stillwater, OK 74074

Portland Job Corps Center
1022 S.W. Salmon Street
Portland, OR 97205
Contact: Dr. Dave Fretwell, Deputy Center Director



Prince George County Board of Education Upper Mariboro, MD 20870 Contact: Mr. Robert L. Brewrink, Supervisor of Trades and Industry, Agriculture/Horticulture, and Health Occupations

Robert J. Brady Co. Bowie, MD 20715

Science Research Association, Inc. 259 East Eric Street Chicago, IL 60611

Sears Roebuck, Inc\* Sears Tower Chicago, IL

The Stanley Works New Britain, CT 06050 Contact: Mr. Bob Stanley

Stack-Vaughn Co. 807 Brazos P.O. Box 2028 Austin, TX 78768

Triangle Institute of Technology 635-637 Smithfield Street Pittsburg, PA 15222

U.S. Department of the Army
Training Developments Institute
Ft. Monroe, VA 23651
Contact: Col. Frank A. Harb, Director

U.S. Army Military Personnel Center-200 Stovall Street Alexandria, VA 22332

U.S. Army Military Personnel Center Military Occupational Research Division 2461 Eisenhower Avenue Alexandria,/VA 22331 U.S. Army Training Development Institute Fort Honroe, VA 23651 Contact: Col. Frank Hart, Director

U.S. Department of Health, Education, and Welfare Office of Education Division of Vocational and Technical Education Washington, DC 20202

U.S. Government Printing Office Superintendent of Documents Washington, DC 20402

University of Georgia
Division of Vocational Education
124 Fain Hall
Athens, GA 30602

University of Texas
Industrial Materials Development
Division of Extension
Main Building 2400
Instructional Materials Center
Austin, TX 78712

Vocational-Technical Education Consortium of States 795 Peachtree Street, N.E. Atlanta, GA 30308

Western House Learning Press-1460 Westinghouse Building Gateway Center Pittsburgh, PA 15222

Wastern Maryland Vocational Resource Center P.O. Box 5448, McMullen Highway Cresaptown, MD 21502

Westinghouse Learning Corporation 2400 Ardmore Boulevard Pittsburgh, PA 15221

